## **D10**

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			clude <rstinterns.h></rstinterns.h>	L
			* Local headers	2 2
			/*	
			#include <eb rb_log.h=""></eb>	
				_
			* Epoch headers.	56.5
			#include <pwd.h></pwd.h>	
			A Commence of a	5 5
			/* * System headers.	5 69
			#define _POSIX_SOURCE 1	ŝ
			*/	45
			* Remove for non-POSIX, non-portable code.	94
			* The following is required for code that uses POSIX API's.	0 1
			* Standard defines required to turn on OS features go here. *	2 6
			* Feature test switches.	90
			*endin	
			"SDateS";	35 %
			#ifridef lint static char RCS_id [] = "\$RCSfile\$"	3 2 2
			** with the what(1) utility. The intent is to keep chis short.  */	3 29
			/+ The following provides an RCS id in the binary that can be located	
			***************************************	
			WHICH WILL STAGE CHIS HEGGET.	
			Compile-Time	
	internalHandlePtr handlePtr = NULL;	85		
			** Internal Functions:	
	* Globel declarations	82 * GI	** EDWRST_Finish	
			AR LINE TO THE PARTY OF THE PAR	
Ce IIIe	* #defines, structures, typeders local to this source rile */	777	** Table of Contents:	12
h			THE CHARLES ONLY COMMUNICATE AND ADDRESS OF THE PERSON OF	
	#include <edmlink edmlink_api.n=""></edmlink>			
	lude <restore restore_engine.h=""></restore>		** Purpose:	
	lude <restore csc_eumrestoreeng.n=""></restore>	71 #include	** Copyright (c) 1998,1999 by EMC Corporation.	
	#include <restore csc_edmdispatch.h=""></restore>		** File Name: RSTIDICTID.C	
	* Comms headers.			ы
		67 /*	/ 经有效的 计多数 化多数 医多种	N
	#include <rstsup_csm.h></rstsup_csm.h>	65 #incl		
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d Oct 08 16:48:45 2008	rec_api_log_begin( "edmrestore_api" ); /" init	-	return( EP_RB_RECOVER_BAD_ARGS );	if (SATHOT == NOTT    HOSCHORNS	is tourist NIIII I because	<pre>memset(&amp;if_spec,0,sizeof(rpc_if_handle_t)); memset(&amp;re_if_spec,0,sizeof(rpc_if_handle_t));</pre>	end_cime += cimeout;	id_time );	rpc_ir_nandie_c ir_spec;	atus_a	error_status_t status;	ARREST OF DESCRIPTION	va1	#ifdef DEBUG	time_t	rpc_binding_handle_t	RE_status_result	DE initialize arms	struct passwd *pw; char *human_uidname		eerrno_ty api_status =	unsigned long	EDMRST_Initialize( hostname_ty serverHandle	***************************************	TO CITE NOOL	- The maximum n	handle	* SVrHdl ( - A handle to z	hostname (I) -	* Parameters:	<ul> <li>session. This must be calle</li> <li>in the Recover API.</li> </ul>	* This function takes care of	* EDMRST_Initialize:	ad Oct 08 16:48:45 2008	
RSTinitfin.c 3 Page 3 of 12	restore_api* ); /* init logs, ignore errs?? */		D_ARGS );	me == Nobb )	EL PATTE I	rpc_if_handle_t));		/* compute time to give up waiting */	9	result *statres = NULL;	***************************************	NG OF Disparch Casmon STURF	eout;		end_time;	re_handle;	*re_init_result;	re init erre:	***		E_SUCCESS;		hostname,	**************************************	MEDICAL BUSINESS PROCESSES NO SEC COMPANIONS	of seconds to wait for the connection	the Restore Engine connection.	to receive a pointer to this user's client	The machine name of the server to use.		d prior to any of the other functions	This function takes care of all the initialization for a recovery	<pre>************************************</pre>	EDMHS1_Initialize	
F	211 212 213	- 20	20	2 20	20	203	201		198	195	192	15	188	12	184	18.	180	179	177	175	173	171	169	167	165	164	162	160	157	15	153	152	150	÷	=
od Oct t		ы	ы	7 6		pa pa	-		- 2	8 8	NN		10 00 No p≠		H H I					H .		2 1			· .		2 1	0 1	8 7		NN			100	2
Wed Oct 08 16:48:45 2008 RSTinitfin.c 4 Page 4 of 12	<pre>initargs.service = DD_SERVICE_RESTORE; initargs.tostname = fostname; initargs.teerrame = fumean_utdname;</pre>	#endi:	(cher *)&rpc_timeout );	<pre>clnt control( handleptr-&gt;dd_binding_handle, CLSET_TIMEOUT,</pre>	rpc_timeout.tv_sec = RPC_TIMEOUT;	#ifdef DEBUG /* increase rpc timeout during debugging */	erino = 0)		return EP_RB_RECOVER_SERVERFAIL;	rec_spi_log_csm( sUB_CSM_RPC_FAIL,	<pre>if ( extro == 0 ) errno = ( strerror( status ) ? status : ETIME );</pre>	/* If errno not set, use status if it is a valid errno value "/	status != error_status_ok)    (retvel == 0))	*/	** Find out if we got osc handle and see if status is bad. ** error_status_ok is a macro defined in oscomm.h.		<pre>&amp;handlePtr -&gt; dd_binding_handle, &amp;status);</pre>	SERVER_GROUP,	retval = csc_get_handle((unsigned char *) hostname, if mnec.	*/	** ever use csc_get_handle to talk to the same host again, ** it will just give back the previously resolved binding.	** handle to the host. The first time we ever call the host, ** csc_get_handle will resolve and store the binding. If we	** return NULL in the end.  ** This call will get and store a fully resolved binding	/* Arrive at a server binding. Note that if they didn't give us ** a valid host parameter, this will fail and drop through and	GLIENT_IFSPEC(if_spec);	/* Use this macro to setup the interface spec */	handlePtr = (internalHandle *) calloc(1, sizeof(internalHandle));	human_uidname = pw->pw_name;	return(EP_RH_RECOVER_PERMISSION_DEMISD))	rec_api_log_csm(SUB_CSM_USER_NOT_IN_PASSWD, NULL);	/* Trouble. */	if (pw == NULL    NULL == pw->pw_name )	and Ma	*	

| Well |

Wed Oct	272 1	266 1 269 1 270 1	265 2		258 1	256 3	253 3 254 3 255 3		249 2 250 2	247 2	245 2		242 3		238 2	236 2	234 1	231 2	229 1	227 1	224 I 225 I		220 2	219 1	216 1	214 1	Wed Oct
Wed Oct 08 16:48:45 2008 RSTinitfin.c 5 Page	$xdr\_free( xdr\_DD\_getservicestatus\_result, (char *)statres );$	memcpy( handlePtr -> opaque128 stattes -> handle.handle.val, sizeof(handlePtr -> opaque128) );	return EP_RB_RECOVER_SERVERFAIL;	rec_spi_log_csm( SUB_CSM_RPC_PAIL,	<pre>if (statres -&gt; status i= DD_SERVICE_RUNNING)</pre>	return EP_RB_RECOVER_RPC_FAIL;	rec_api_lo	if (statres == NUCL)	<pre>statres = dd_getservicestatus_1( &amp;statargs,</pre>	sleep(1);	)	return to BB BECOVER SERVERFATI. engine"	rec_api_log_csm( SUB_CSM_RPC_FAIL, "timeout waiting for educised to start restore	if (now >= end_time)	<pre>xdr_free( xdr_DD_getservicestatus_result, (char *)statres time( know );</pre>	time_t now;	while (statres -> status ** DD_SERVICE_STARTING )	return EP_RB_RECOVER_RPC_FAIL;	if (statres == NULL)	<pre>statres = dd_getservicestatus_1(</pre>	statergs.status = 0;	1	{     return EP_RB_RECOVER_RPC_FAIL; }	if (initres == NULL)	<pre>initzes = do_initialize_i</pre>	initargs.timeout = timeout;	Wed Oct 08 16:48:45 2008 EDMRST_Initialize Page
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08 16:48:45 2008		re_ini	#endif re_inj	/* increase rpc_ti rpc_ti clnt_c		if (api statu	if ((s			retval =	sleep.	, 16		,	time(	do {	api_status = I	return EP_F	rec_api_lo	if (retval == (			recvar = csc_b	/* KE_ULIBRI_IFS		***************************************	Wed Oct 08 16:48:45 2008
RSTinitfin.c6	apl_status = EF_MB_KECOVER_KC_FAIL; rec_api_log_csm( SUB_CSM_RPC_FAIL; "failure communicating with restore	re_init_result = re_initialize_1( re_init_result = re_initialize_1) if (!re_init_result) {	re_init_args.username = human_uidname;	<pre>increase xpc timeout during debugging */     rpc_timeout.tv_usec = RPC_TMEOUT;     xpc_timeout.tv_usec = 0;     cint_control( re_handle, CLSET_TMEOUT. (</pre>	re_handle = handlePtr -> re_binding_handle;	(apt status == E SUCCESS)	£status; == error_status_ok) && (r api_status == E_SUCCESS; (ani status  = R_SUCCESS);	&handlePtr ->	re_if_spec,		(1):	return EP_RB_RECOVER_SERVERFAIL;	"timeout connecting	rec_api_log_csm( SUB_CSM_RPC_FAIL,	time( &now ); if (now >= end_time)	now:	api_status = EP_RB_RECOVER_SERVERFAIL;	return EP_RB_RECOVER_SERVERFAIL;	rec_api_log_csm( SUB_CSM_RPC_FAIL, *failure initializing inter	0)	&re_if_spec, &status);		-> rachar = csc_brivate=repair	RE_CDIDNY_Arche (re_re_spec); "/	Restore Engine FUNCTIONALITY BEGINS HERE */	END OF Dispacen Daemon Store	EDMRST_Initialize
Page 6 of 12	FAIL, with restore	rgs, re_handle );	dename;	UT. (	handle;		(retval := 0))	-> re_binding_handle,	ar *)hostname,	e to get going */			ting to restore engine");	ŗ				engine");	interface to restore				Ptr -> opaque128,			/************/	Page 6 of 12

Wed O	349	347 1	344 1	340 1 341 1 342 1	337 2 338 1	336 3		332	Wed C
Wed Oct 08 16:48:45 2008	_								Wed Oct 08 16:48:45 2008
5 2008	/* End of EDMRST_Initialize() */	return( api_status );	<pre>if (</pre>	else rec_api_lo			else {	<b>~</b>	15 2008
RS	RST_Initiali	tatus );	CESS) /*	rec_api_log_csm( SUB_CSM_RFC_FAIL,		/* releas			EDM
RSTinitfin.c 7	ze() */		return rest Handle)re_h	CSM_RPC_FAII		e RPC resul	s = re init		EDMRST_Initialize
			eng handle andle;	ting to rest		t struct: *, tus_result, char *)re_	result->sta		
Page 7 of 12			on success	ore engine"		<pre>/* release RPC result struct: */ xdr_free( xdr_RE_status_result, (</pre>	itus:	engine");	Page 7 of 12
120				=					
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/* EDMRST_Finish */	448		
return( api_status );	446 1		
$rec_api\_log\_end();$ /* write last log and close the log file.	443 1		
J	441 1		
else {	438 2 438 2 439 2		
set_ppc_obj( re_finish, &re_finish_args_RepobjID ); re_finish_result: re_finish_res_finish_args_evHdl ); if (re_finish_result) {     re_finish_result) {     re_finish_result} (RE_CEN_REC_FAIL;     rec_api_log_cem( SUB_CEN_REC_FAIL, NULL); }	433 1 433 2 434 2 436 2		
return( EP_RB_RECOVER_BAD_ARGS );	428 Z 429 L		
<pre>if ( NULL == svrHdl    NULL == handlePtr</pre>	925 926 1		
result	421 1 422 1 423 1		388
eerrno_ty EDMRST_Finish( serverHandle svrHdl ) (	- p	epi_status = re_ping_result->status; epi_status = re_ping_result->status; /* release RFC_result struct: '/	
EP_RB_RECOVER_RAW_RAWS  #P_RB_RECOVER_TRC_FAIL  # EP_RB_RECOVER_INVALOP  # EP_RB_RECOVER_SERVERPAIL  #	411 411 412 413	re_injc_dby{ re_phing, Ken_aling_args.RCcdalID };  re_pling_result = re_phing_1 Ken_pling_args.swrlddl };  if (WILL = re_phing_result) (  apl_acatus = Elp_Re_RCCVER_RC_NAIL;  pl_acatus = Elp_RCCVER_RC_NAIL;  pl_acatus = Elp_RCCVER_RC_NAI	376 1 E 377 1 E 379 2 1 1 380 2 381 1 )
Restore Engine (server)	408 408	return( EP_RE_RECOVER_BAD_ARGS );	373 2 374 1
* Parameters:  * Parameters:  * syrHdl (I) - A pointer to this user's client handle for the	404 405	<pre>if ( NULL == svrHd1    NULL == handlePtr</pre>	370 1 1 371 1
* API.	402	RE_status_result	,
* disconnect from the Restore Engine. After calling this fi * EDWRST_Initialize MUST be called before calling any other	400	pi_stat	
It will be rejected if a restore is currently being executed this routine will clean up any local memory used in the session and will	399	eerrno_ty EDMRST_Ping( serverHandle svrHdl)	362 ***
* This function terminates a restoral session, but only * mark phase.		surHdl $(I)$ - A pointex to this user's client handle for the Restore Engine (server) connection.	359
* Punction Description:	195	Parameters:	
/	393	This function allows a ping to be issued in order to keep the engine alive and running so that the engine will not time out.	55
		(excesses $e$	
Wed Oct 08 16:48:45 2008 EDMHS1_FINISH	Wed Oct	:48:45 2006 EDMRST_Ping Page 9 of 12	Wed Oct 08 16:48:45 2008

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	<pre>total_kbytes_sofar; total_files;</pre>	unsigned long unsigned long	
	*/ time_started; curr_time;	/* work item structure */ struct WIProgress {   unsigned long t   unsigned long c	unsigned long low:  unsigned long low:  count D_service_Nemporal;  /* structure_struct_Nemporal;  /* structure_struc
	ni_cype */ 1; 2; 16;	/* Gerines for operation_type const HACKUP_TYPE = 1; const RESTORE_TYPE = 2; const OTHER_TYPE = 16;	struct DD_client_session_id {     uustaned_loom_bidh;
st buffer */	iffers '/ 16; 16; 26; 26; 256; 256; 4 must be the length of the longest buffer	/* langth of warious buffers onst THANNE_SIZE = 16; onst THANNE_SIZE = 16; onst THANNE_SIZE = 64; onst THANNE_SIZE = 64; onst USENNAKE_SIZE = 64; const USENNAKE_SIZE = 66; onst USENNAKE_SIZE = 66; onst USENNAKE_SIZE = 66; onst USENNAKE_SIZE = 26;	/ ABLO STRUCTURE DESIRITIONS  DATE OF THE STRUCT ND_FPC_objID  acruct ND_FPC_objID  acruct ND_FPC_objID  tift
	D_TYPEE 0 0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	CONST. SE BACKUP_TYPE CONST. SINAED_MATCH BACKUP_TYPE CONST. SINAED_MATCH BACKUP_TYPE CONST. ONLINE_XTCHEM_TYPE CONST. ONLINE_XTCHEM_TYPE CONST. DOONN_MRK_TYPE CONST. DOONN_MRK_TYPE	Boaic idea here: Define the RPC level interfaces to the Dispatch Daemon and all data types that will be passed via RPC.  // Comstant Definitions //
	atruct ID_getservicestatus_result ( int scatus;  int scatus;  int scatus;  int scatus;  intled the scatus;	struct DD_getservicestatus the the h  /* work item type */ * These match the riconfig.h for t * game extras for identifying NOS */	Time Options:  **Compile-Time Options:  **Compile-Time Options:  **Compile-Time Options:  **Index of the compiled of the compi
	struct DD_chicklise_result ( unsigned int setus; DD_chient_session_id service_handle; ); ures for getstatus function */ struct DD_chient_session_id service_handle; DD_chient_session_id service_handle; );	struct D2_initialize_result (	* Mission Statement: This is an RECORN file which defines the RPC interface  * Mission Statement he Dispatch Demon (which resides of its  the EDWs server) and the backup client collers of its  functions. This defines the RPC level cells that a  * 'caller' can make and the 'service' will respond to.  * Primary Data Acted On: This defines the data that will flow over the wire.  The RPC mechanism will take care of data
	RE_NONEXEC=-4; RE_FERMS=-2; RE_FERMS=-1; RG=1; TED=44;	const DD_SERVICE_FAILURE_NONEXEC=-4; const DD_SERVICE_FAILURE_PERWS=-2; const DD_SERVICE_FAILURE_EXEC=-1; const DD_SERVICE_STARTING=1; const DD_SERVICE_RUNNING=2; const DD_SERVICE_COMPLETED=4;	Leading & course Proper to pass a list dispelly bhought to the citypit or more sense and be properly documented:
	string hostname<>; string username<>; unsigned int timeout;	string string unsign	8/* Copyright 1997,1998 DMC Corporation 8*/
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				status; edm; *wiprogress;	( unsigned long EDMProgress WIProgress);
					struct EDMStats
				host_name[HOSTNAME_SIZE];	char );
				*next;	struct EDMProgress
		%*/ } = 390015;		operation_type; completed; status;	int int unsigned long
e re-used, the last daemon for this number.	uely. If it were to be ted when RPC's come in	% * identifies this daemon uniquely. If it were to be re-used, the las % * to register would be contacted when RPC's come in for this number.		total_files_expected; total_kb_expected;	unsigned long unsigned long
These are reserved in /pds/docs/RPC_numbers y any other RFC daemon on the machine, as it	ber. These are reserved sed by any other RPC dam	%/* This is the RPC program number. These are reserved in /pds/docs/RPC_number number cannot be re-used by any other RPC deemon on the machine.		active; total; felled; successful;	unsigned long unsigned long unsigned long unsigned long unsigned long
rvicestatus_args ) = 3;	SessionBlock dd_getsessioninfo( DD_getservicestatus_args ) = 3; This is version 1 */	SessionBlock dd_gets $1 = 1$ ; /* This is version $1 *$ /		<pre>curr_time_siice; curr_kbytes_sofar; curr_files;</pre>	unsigned long unsigned long unsigned long
ervicestatus( DD_getservicestatus_args ) = 2;	DD_getservicestatus_result dd_getservicestatus( DD_getservice	DD_getservicestati		total_badfiles;	unsigned long
nitialize_args ) = 1;	DD_initialize_result dd_initialize( DD_initialize_args ) =	/* Functions for a DD_initialize_resu		total_kbytes_sofar;	unsigned long
		version EDMDD_FUNCTIONS (		time_started; curr_time;	struct EIMProgress ( unsigned long unsigned long
		program EDM_DISPATCH_DAEMON (			/* SUMMARY structure */
	*sess; totalsessions;	struct SessionInfo int		level; type;	char char
		struct SessionBlock		userid[USERNAME_SIZE];	char
		3.7		media type[MEDNAME SIZE];	char
	*next;	SessionInfo		template_name[TEMPLNAME_SIZE];	char
	errhandle;	int		<pre>trail_name[TRLNAME_SIZE]; trailset_name[TRLNAME_SIZE];</pre>	char
	lastReceived;	long		wi_name(WINAME_SIZE);	char
	operation_type; lastSent;	int		*next;	struct WIProgress
	jobstarttime;	unsigned int		status;	unsigned long
	service_handle;	{ DD_client_session_id		operation_type; completed;	inc
		struct SessionInfo		total_files_expected; total_kb_expected;	unsigned long unsigned long
	ito;	string msgtext<>;			
	sourcemodule; level; msglen;	int sourcem int level; int msglen;		<pre>curr_kbytes_sofar; curr_time_slice; curr_files;</pre>	unsigned long unsigned long
	, in			total_badfiles;	unsigned long
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PACK 20144	EUWIUISDAICH.CZ	Mon Oct 13 16:06:00 2008	Mon	Non Oct 13 15:05:00 zou8 EDMDISpatch,C1 Page 1 of 44	Won Oct 13
				SOURCE	63 #0
				*/	
				* and certain signal structure definitions.	6 6
					_
				#include <#DMDDor retevo.h>	
				#include <edmmsin.h></edmmsin.h>	54 ##
				#include <restore csc_edmdispatch.h=""></restore>	51 #1
				#include <util esl_daemon.h=""></util>	#1
				#include <logging logging.h=""></logging>	
				Thereases and all the property of the property	
				#INCLUDE <thread.n></thread.n>	
				#include <string.h></string.h>	39 #1
				#include <esl ep_xopen.h=""></esl>	35
	repug!	return w_debug/	96		
	Parkers.			/* #define _XOPEN_SOURCE unable to compile with this define set */	32 /
		IsDebugOn()	94	unable to	
		boolean tv	9 2	*endit	
		*	:		
* 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		***************************************	91		
		*	90	s_id [] =	
	caller: internal only.	Intended	8 6	*/ - 20051104(1:01)	2 24
	Mignist depokation on manufacture.	* 1	9 %	** with the what(1) utility. The intent is to Keep this short.	
ar suosystems	This routine can be used to tell other subsystems	** Purpose:	86	** The following provides an RCS id in the binary that can be located	
		:	85	/*	
	TRUE if debug is on.		2		_
		** Return Codes:	2 2	** Basic idea here: Module for UNIX Specific daemon thitiatization	
	None	Outputs:	2		
			80	** None.	
	26	** Inputs: None	3 6	** Compile-Time Options:	
	sDebugOn	** Routine: IsDebugOn	77		
		:	76	** Primary Data Acted On:	
* * * * * * * * * * * * * * * * * * * *		/**************************************	75		
				** which prepares the daemon to go off and service	*:
mand line args */	**commandlineargs; /* Pointer to command line args */	static char	2	** This file contains the callbacks from the main	9
disable forking */	/* Variable which will disable forking				
	G debug = FALSE;	static int	2		
	static rpc_if_handle_t if_spec;	static rpc_if	69	** EDMDispatch.c	6
		The same of the same of		<b>,</b>	
	SOURCE	#undef XOPEN SOURCE	67		
	nel.h>	#include <signal.h></signal.h>	6	** Copyright 1996,1997 ENC Corporation	2 F
		-		0,00,00 =000	Mill Con II
Page 2 of 44	IsDebugOn	Mon Oct 13 16:06:00 2008	Mon C	13 16:06:00 2008 Page 1 of 44	Thorn Ord 15

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(void) EDBD:space_logmenting_gme, Massade_No_logiN, 0,	(Void) ENDISPECT_LORM: [_IRE	(VOICE) ENDINGMENT. LINE. TO SEEN MESSAGE MOLICIN, 0, COURS, MESSAGE MOLICIN, 1 = 0; COURS, MESSAGE MOLICING, 0, SECURITION, 0, SECURITION, 0, SECURITIES. LINE. LOGINGO, MESSAGE MOLICING, 0, SECURITIES. LINE, LOGINGO, MESSAGE MOLICING, 0, SECURITIES.	(World EMDIspetch_Lognet (INECOERRNESSADE_RO_LOGNE, 0, COERRNESSADE_RO_LOGNE, 0, COERRNESSADE_RO_LOGNE, 0, COERRNESSADE_RO_LOGNE, 0, COERRNESSADE_ROGNET, CLEAR);  Get the oursent time '/ cold time (screent_time);  Overlay medine with mull _ buf should always be 26 bytes long '/ imebuf strien(chimebuf) _ l ] * 0;  Inebuf strie	(Voici ENDispect_Logner:ineroz_mem_Messate_NoicolN, 0, crock_sever_logner.com ender ende ende	(void) ENDISPECT_LOGNET (INE	(void) EMDISPECT_LORME(INE	(Voici ENDISPECTIVE :	(void) ENDISPECT_LEMPINC_ERN, MESSAGE_NO_LOCEN, 0, -CS_SERVE_LOCEN, 0, ESSAGE_NO_LOCEN, 0, -CS_SERVE_LOCEN, 0, ESSAGE_NO_LOCEN, 0, ESSAGE_NO_LOC	(void) ENDISPECT_LORME(IDE	<pre>(void) ENDispect_LegentintE nos_ERB, MESSAGE_No_LOciN, 0,</pre>	(void) EDMD1spactol_logent(LiNE, LOG_ERR, MESSAGE_NO_LOGIN, 0,TILE, LOG_ERRYER_LOGIN failed: <pre></pre>	(void) EDMDispatch_logatt(		ebuff = (char *) csc_get_error( status );	<pre>/* If the unregister fails, report the problem, but continue */ if ( status != error_status_ok )</pre>	/* Unregister the interface */ (void) csc_unregister_server_interface(&if_spec, &status);	/* If main exits, it calls this routine with signal 0 */	'er	status;	*/ static wold kill handler( IN int sigwel )	***************************************	Intended caller: internal only.	SIGTERM. Each results in a log entry and an exit.	Purpose: This routine mandles specific signals i.e. Signif; SIGQUIT,		Return Codes: exits with the number of the signal received	Outputs: Will log messages telling what action is being caren.	Appendix and the second	traite. (at elong) - the signed which was received.	Routine: kill_handler		3:06:00 2008 kill_handler Page 3 of 44
																	184	181 1		177		174	172	177	169	168	166	164	162	160	159	Mon Oct
) /* end display_usage () */	) /* end display_usage () */	) /* emd display_usape () */	) /* end display_usage () */	) /* end display_usape () */	) /* end display_usage () */	) /* end display_usage () */	) /* emd display_usape () */	) /* end display_usage () */	) /* end display_usape () */	) /* end display_usage () */	) /* end display_usage () */	) /* end display_usage () */	) /* end display_usage () */	} /* end display_usage () */	} /* end display_usage () */	) /* end display_usage () */		<pre>fprintf (stderr,"Usage: %s [-d]\n", progname); fprintf (     stderr,"-d keep the daemon from forking so de</pre>	/* Print out usage stmt. */	<pre>display_usage (IN char *programe) {</pre>	*/ static void	*****************	20000	* Special Considerations:	* Prints usage.	* Error Outputs and Side Effects:	* Program name	*	* Simply displays the usage	* Punction Name: * display_usage	/**************************************	Mon Oct 13 16:06:00 2008
																		printf (suderr, "Usage: %s $\{-d\} \setminus n^*$ , progname); printf (stderr, "-d keep the daemon from forking so debugging is easier\n");		anne)						ects:					**************************************	display_usage P.
																		ier\n");				* * * * * * * * * * * * * * * * * * * *										Page 4 of 44

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S - - ----

Mon Oct 13 16:06:00 2008	248 1	246 1	244 1	242 1	240 1	500	237 1		235 1	233 1	232 1	230 1	228 1	225 1	222 1	220 1	219 1	218 1		214 1	213 1	211 1	۳	×	206 */ 207 void dae		2 :			198 ** Purpose:	*		 	191 ** Inputs:	:	*		
EDMDispatch.c 5		<pre>(void) sigdelset( &amp;sactions.sa_mask, SIGINT ); (void) sigdelset( &amp;sactions.sa_mask, SIGUIT );</pre>	<pre>(void) sigdelset( &amp;sactions.sa_mask, SIGTERM );</pre>	* above so remove those from the list.	/* * We want to ignore everything except those we have se	(ACTAL STREET DOCK GOOGGESTONS OF THREE //	(void) sinfillest( Seartions on mask ).	* Setup mask so we can specify what signals we will ignore	\*	(void) sigaction( SIGQUIT, &sactions, NULL );	NOTE	*/	/* * Assign handler to each signal we are interested in.	<pre>/* Setup the signal handler. */ sactions.sa_handler = kill_handler;</pre>	(void) sigaddset (&sactions.sa_mask, SIGINT);	(void) signddset( &sactions.sa mask, SIGTERM );	* Add signals that we want to handle	/*	(void) sigemptyset( &sactions.sa_mask );	* Set an empty list so we can set signals we want to namule	/*	ZERO( sactions );	struct sigaction sactions; /* Signal actions */		*/ void daemon catch interrupts()	计多数分类 化甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	Intended caller: internal only.	SIGQUIT and ignoring anything else.	In this case we are catching SIGTERM, SIGINT, and	ose: Sets up signals for service. On NT we will have to consider what OS constructs to replace signals with		** Return Codes:	uts: None	ts: None	Routine: daemon_catca_interrupts	· · · · · · · · · · · · · · · · · · ·		6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Page 5 of 44					Set W			ignore.												Dana16						***			and	s with.							*****	***
$\overline{}$	_																																				252 1 253 }	250 1 251 1 252 1 253 )
Mon Oct 13 16:06:00 2008																																					(void) thr_s	* all threads wi */ (void) thr_sigse
EDMDIspatch.c 6																																					sigsetmask( SIG_SETWASK, &sactions	* all threads will get this mask. */ (void) thr_sigaetmask( SIG_SETWASK, &sactions.sa_mask, NULL );
Page 6 of 44																																					ns.sa_mask, NULL );	ns.sa_mask, NULL );

Mon O			285 2 286 2 287 2	282 1 283 2 284 2	278 1 279 1 280 1	276 277 1	274	271 272 273	269 270	268	266	264	262	260	258 259	256	Mon O
Mon Oct 13 16:06:00 2008 EDMDispatch.c 7				if (geteuid() != E_R { (void) EDMDispatch	** Check for root  */	void daem	*	** Intended caller: internal only.	function may be blank.		** Purpose: Checks user's ID and determines if the user is allowed	** Return Codes:  ** exits with an error when the user is not root	** Outputs: None	** Inputs: None	** Routine: daemon_check_proper_ID **	/	Mon Oct 13 16:06:00 2008 daemon_check_proper_lD
Page 7 of 44			was \$d",	or meaning to the contract of						nts then this	er is allowed	root				****	Page / of 44
Mon Oc	329 1 330	328 2	323 324 325 326 3	319 320 321 321	316 1 317 2 318 2	314 :	311		307	304	302	300	298	297	294		Mon Oc
Mon Oct 13 16:06:00 2008 EDMDis		<b>&gt;</b>	break;  default:  (void) display_usage( argv[0] ); exit(1);	case 'd': case 'D': case 'D':	<pre>while ((opt = getopt(argc,argv,"dD*)) != EOF) {     switch(opt)</pre>	commandlineargs = argv,	int opt;	*/ void parse commandline(int argo, char *argv[])	。 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	** Intended caller: internal only.	Purpose:		Return Codes:	** Outputs: None	** Inputs: argc, argv (command line arguments)	** ** Routine: parse_commandline	MON OCI 13 TOJUOZUU 2008 PERBE JUJI III III III III III III III III II
EDMDispatch.c 8 Page 8 of 44			( argv[0] );		gv, "dD")) != EOF )		/* Process options */		- 电电子电子电子电子电子电子电子电子电子电子电子电子电子电子电子电子电子电子电		are no flags to be set then this function may be empty	exits with an error when the user types a war organization.	the same times a had arrest		ine arguments)	*****	IIII CALCULATION CONTRACTOR CONTR

(a) 1 ** to make this a 'real' demon by decabing from the ferminal (a) 1 ** changing the process group, closing action, stders, action (a) 1 */ (a) 1 if (c_debug == FALSE) (a) 2 ret = oil_demon_startup(); (b) 2 fert != () (c) 4 fert != () (d) 3 fertise() (d) 4 fertise() (d) 6 fertise() (e) 6 fertise() (f) 7 fertise() (f) 8 fertise() (f) 8 fertise() (f) 8 fertise() (f) 9 fertise()		
1 1 *** 1 1 *** 2 2 4 { 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3		
1 ** 1 ** 1 ** 2 ** 2 ** 2 ** 2 ** 3 ** 4 ** 2 ** 3 ** 4 ** 2 ** 3 ** 4 ** 4 ** 5 ** 6 ** 7 ** 7 ** 7 ** 8 ** 9 ** 9 ** 9 ** 9 ** 9 ** 9 ** 9		
1 1 1 ** 1 1 1 ** 1 1 1		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
* * * *		
: :		
1 ** to make this a "real" daemon by detaching from th		
400 1 /*  ** This is now est functionality.  This code does everything necessary		
-		
2 exit(1);		
N N		
2 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (		
<pre>195 1  /* Change directory to a process specific core directory */ 196 1  ret = sel_coredir_setup(ptr); 197 1  if fret i = 0)</pre>		
. ,. ,		
ptr = strrchr(commandlineargs[0], '/');	ACTRI CONTRACTOR AND ACTRIC TROP TO A TOTAL TOTA	
1 * elsewhere.	/* Pass in argv[0], the program name */	356 1
<pre>185 1 /* 186 1 * Strip the path from the program name so we can use it</pre>	daemon_initialize_logging()	35
	votd	353
182 1 Cher *ptr:		351
	***************************************	350
		348
377 */	**	347
	** calling higher level logging functions which	345
**	** future this may involve doing something with catalogs	344
<pre>171 ** Purpose: This function is for doing the lorking etc. under dwix. 172 *** It is unknown what will be necessary under NT.</pre>	** Purpose: Do whatever it takes to initialize logging. In the near	343
:	TACTION TOTAL	342
<pre>168   ** Return Codes:</pre>	** Return Codes:	340
x*	** Outputs: None	338
: :		337
	** Inputs: None	335
** Routine: dasmon_become_dasmon	** Routine: daemon_initialize_logging	333
*	******	
360 /************************************	· 人名巴尔拉尔伊格特地名法国马尔尔伊克伊克尔伊克伊克尔 电电电阻系统 阿拉拉斯 医牙骨性 计可以存储器 医甲基甲基甲基甲基 医克尔斯氏试验检检验检验检验检验检验检验检验检验检验检验检验检验检验检验检验检验检验检验	332
Mon Oct 13 16:06:00 2008 daemon_become_daemon rege to or 44	Mon Oct 13 16:06:00 2008 daemon_initialize_logging Page 9 of 44	Mon O

tatus );	181 3 Carden Land Card Card Carden Ca					
	- car - (char *) con cat arror at	480 3				
appropriate. */	else /* Print error message if appropriate.	479 2				
	) LI GUN,	478 2				
	( hwork	476 3				
loop. */	<pre>/* If we succeeded, then exit this loop. */ if ( status == error_status_ok )</pre>	474 2 475 2				
PAB, &status);	SERVER_KEYTAB, &status);	472 2				
WCIPAL,	(void) csc_server_login(SERVER_PRIN	470 2				
	while (TRUE)	469 1				
PC this is a no-op.	* server is unavailable.  Note that under SUN RPC this is a no-op	467 1				
registery	Teg					-
DOR If the	* This property will been review to lowin to	965 1				
of the process	+ Login as SERVER_PRINCIPAL. The context of the process * will be set to this principal.	962 963 1				
, , ,	<pre>/* Setup the interface specification for RPC */ SERVER_IFSPEC(if_spec);</pre>	459 1 460 1				
	dil Cr	457 1				
(5,0); /* 5 second sleep interval */	struct timespec sleep_interval =					
1 sleep interval */	#ifdef_STRUCT_TIMEVAL sleep_interval = (5,0); /* 5 second sleep interval */	ر مو سو				
lefine timeval. ants	** This is here because of HP which may or may not define timeval. ** May be removed when est_timeval is ported to clients */	449 1 /				
	char *ebuff;	447 1 0				
/* error status (nbase.h) */	error_status_t status; /* error s	pa p				
	void zpc_init()					
	,	442 */	The Second Secon			
******						
	** Intended caller: internal only.					
ng the csc routines. C and NT.		9 9				
alization.	Purpose:					
zation fails	* Return Codes: exits with an error code if initialization fails					
	* Outputs: None	430				
	Tubucs:	-				
	* Routine: rpc_init				-	422
**********	/	424		exit(1);	2 }	419
Page 12 01 44	Mon Oct 13 16:06:00 2008 rpc_init	Mon Oct 1:	aemon Page 11 of 44	daemon_become_daemon	Mon Oct 13 16:06:00 2008	Mon

Mon Ort	537 538 2 539 2	533 1 534 2 535 2	529 1 530 1 531 1	525 2 526 1	521 2 522 2 523 2 524 2		517 1 518 2	513 1 514 1 515 1	511 1 512 1	508 2 509 1	503 2 504 2 505 2 506 2	500 3 501 2						487 2	486 3			483 3	Mon Oct 1
Mon Oct 13 16:06:00 2008	(void) EDMD	if ( status ! {	(void) csc_re	exit(1);	(biov)	epurr = (cha	if ( status !	** a listen. */ (void)csc_aut	** We need to	exit(1),	/* If (void	<u></u>			-	if (s	/* If	-				(vo	Mon Oct 13 16:06:00 2008
EDMDispatch c 13	<pre>(void) EDMDispatch_jogent( _FILE _, _LINE,LOG_ERR,</pre>	<pre>if ( status != error_status_ok ) { ebuff = (char *) csc_get_error( status );</pre>	(void) csc_register_server_interface( &i SE &se		(void) EXMINESPACEL LOGENT(FLUE, LUE, LUE, LUE, LUESA,GE_, LUON_THORIZATION, 0,	epur = (c)er .) cac_dec_error( ocacno //	if ( status != error_status_ok )	** a listen. */ (void)csc_authorization_init(&status);	/* we need to initialize the authorization module before we do	1),	/* If we got hare, we had a unexpected failure. */ (void) EDMDispatch_lognt(_FILELOG_ERR, MESAME_NO_LOGINO,	CSC_SLEEF(8100_INTERVAL);	*/	* uses steep when buwkrc, otherwise uses  * pthread call to delay for the specified  * time	/*	if (status == sec_rgy_server_unavailable)	/* If the failure was due to unavailable citent, * pause and then try again. */		status, ( ebuff ? ebuff :	-CSC_SERVER_D	MESSAGE_NO_LOG	(void) EDMDispatch_logent(	rpc_init
Page 13 of 44	NE,LOG_ERR, R, 0, R, 0, RTERFACE failed: <pre></pre>		&if_spec, SERVER_ANNOTATION, &status);		IL (FILELLINE, LGS_ERK, BE_NOADTHORIZATION_TOT failed: <%d>%s*, AUTHORIZATION_INIT failed: <%d				module before we		cted failure. */	1		or the specified		ilable)	ilable client,		status, ( ebuff ? ebuff : "Unknown error"));	Octo retred: vec.	MESSAGE_NO_LOGIN, 0		Page 13 of 44
																					543	541 2	Mon Oct
Mon Oct 19 16:06:00 20:08																					_	exit(1);	Mon Oct 13 16:06:00 2008
EDMDispatch c 14																						distant . Service . Control of the c	rpc_init
Page 14 of 44																						CARROLL CARROLL T	Page 14 01 44

Mon Cot 13 1500500 2008 demono, speechinstall section    International	patch.c 16 Page 16 of 44	Mon Oct 13 16:06:00 2008 EDMDispatch.c 16	Mon O	Mon Oct 13 16:06:00 2008 EDMDispatch.c 15 Page 15 of 44	Mon Oct
PRO_ING PRO_CALLS (TAXABLE STEPLINGS)   100   10	2) (	setrlimit(RLIMIT_NOFILE, &rlp			
PRO_NAM  SSS  SSS  SSS  SSS  SSS  SSS  SSS	very large */				
PROCEDURE 1 CONTROL PROPRIESTED 15 CONTROL PROPRIS CONTROL PROPRIESTED 15 CONTROL PROPRIESTED 15 CONTROL PROPRIEST	),	ctimebuf	630 1		
PG_FIN  PG_BIS PACE  None  Status: internal only.  Status: internal only	vice %s sta				
PRIMA PAGE 15 (AM MAG OF PAGE	IOG INFO. MESSAGE STARTUP.	/* Log startup (void) EDMDisp			
PG_FIN  PG_BIS FUNCTION  PROPRIES AND PROPRIES AND LISTEN  PG_FINE  None  None	1 ] = 0;				
PC_INI PC	1 - buf should always be 26 bytes				
PC_RIM  PROPRIES   Mone  None	ime);				
PRO_NAM		<pre>/* Find out what time it is (void) time(&amp;current_time);</pre>			
PRO_NIM		_			
PC_LUM					
PC_NIM  PROPRIEGATA  None  Non	Ξ.		614 1	ebuff ? ebuff : "Unknown error") );	578
PC_RIM  PC_RIM  PROPRIEGO 15 for running the BPC listen.  This is pretty etundard between UNIX and DT.  This is pretty etundard between UNIX and DT.  This is pretty etundard between UNIX and DT.  State: internal only.  State: int	Tready logs errors so just exit.	:::		"CSC_SERVER_LISTEN tailed: <%d> %s",	
PRO_NIM	so we don't start multiple			LOG_ERR, MESSAGE_SERVERLISTEN,	
PC_UM		struct r		/* We don't expect to get here. */	
PC_RIM PC_RIM PC_RIM PC_RIM None None None None None None None None		time_t current_time;		ebuff = (char *) csc_get_error( status );	
PC_RIM PC_RIM PC_RIM PC_RIM RANGE RA		int pthread_t pthread_t	605 1	listen_max_calls_default, &status	
PRNAM	/* error status (nbase.h) */	et tot [poureng] c		/* listen for RPC calls forever: */	
PC_UM Page 15 044 Mon Out  PC_TUM Since Si				*ebuff;	-
PC_run PC		void daemon_specific_initialization()	600	status; /* error status (nbase.h)	pa 1
PC_run  PRight 5 d 44  Mon Out  Name  Name		*/	597	void zpc_run()	
PRnm	***************************************	***************************************	596		
PRO_RIM		Intended caller:	594	*************************************	
PC_IN Page 15 0/44 Mon Oct PC_IN PC_IN Page 15 0/44 Mon Oct PC_IN Rune Nune Nune Nune Nune Nune Nune Nune N	And Credit respectively	* *	593	Intended caller:	
PR_nm	thread or open a socket.		592		net en en
Prog.nin Prage 15 of 44 Mon Oct 15 Mon Oct 1	is daemon special. In some cases you	Purpose:	591	Purpose:	
PC_nin Page 15 of 44 Mon Oct 15 M			589		
Prog_nun Page 15 of 44 Mon Oct 15 Prog_nun Page 15 of 44 Mon Oct 15 Prog_nun 1		Return Codes:	885		
Pog_nin Page 15 of 44 Mon Oct		Outputs:	586	Outputs:	
PC_run Page 15 d 44 Mon Od 90_ 1		Inputs:	585	Inputs:	
rpc_run	600.000	KOUCTING:	583	Routine:	
rpc_run Page 15 of 44 Mon Oct	1 0 7 7 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		581		
rpc_run Page 15 of 44 Mon Oct 13 16:06:00 2008 daemon_specific_initialization	这条路路路路路路路路路路路路路路路路路路路路路路路路路路路路路路路路路路路路	/*****************************	580	***************************************	545
The same of the sa	the_initialization Page 16 of 44		Mon Oc		Mon Oct

Mon Oc	664 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			650 Z 651 1	649 2	648 2		644 1	641 1	640 1	638 1	Mon Oc
Mon Oct 13 16:06:00 2008	, , , , ,		_	hya.				н \			2	Mon Oct 13 16:06:00 2008
2008	/*pthread_crepthread_crepthread_crepthread_crepc_init(); rpc_run();	* for the	* Start t	exit(1);		(void	if (ret != 0)	/* Initial		woid) EDM	etrlimit(	2008
	/Pythread_create(seantid, NUL, Disphaeon_cor, NUL); // phread_create(seantid, NUL, Disphaeon_cor, NUL); // phread_create(seantid, NUL, Disphaeon_cor, NUL); pp_inted_create(seantid, NUL, Disphaeon_cor, NUL); pp_inted_create(seantid, NUL); proc.int(); pp_inter();	Decumes the RE Lineau innovanings of the star years for the data collection thread. BANDataCleanup is the fairty point for the data expiration thread.  */	he other t			(void) EDMDispatch_logent(	0)	<pre>/* Initialize service launcher */ rot = EDMDDSvcInit();</pre>		(void) EDMDispatch_logent(	getrlimit(RLIMIT_NOFILE, &rlp);	da
EDMDispatch.c 17	ntid, NULL, id, NULL, ntid, NUL	ection the	hreads in		"Service	tch_logen		e launche;	Pervice e	ogent(	TLE, &rlp	daemon_specific_initialization
tch.c 17	DispDaemo DispBaemo	cead. BAMI cpiration	the daemo		auncher f	E .		*	De saot	LOGLIN	-	_initializatio
	mon_cor, i n_cow, NUI hBackgrou	etaCleanu thread.	n. The ma		"Service Launcher failed returning - %d", ret)	LINE , LOG_INFO, 0, 0,			71	FILE_, LINE_, LOG_INFO, MESSAGE_STARTUP,		3
Page 17	nd, NULL); */	) is the	in threed		r gning - 8	OG INFO, 0			rlp.rlim_max );	SE_STARTUE		Page 17 of 44
Page 17 of 44			+		%d",				× );			-
Mon Oct		687 1						672			666	Mon Oct 1
Mon Oct 13 16:06:00 2008			void	` !	** Intende	** Purpose:	::	** Outputs: ** Return Codes:	** Inputs:	** Routine	******	Mon Oct 13 16:06:00 2008
2008		kill_handler( 0 );	anup ()		Intended caller:		None	Codes:	None	Routine: daemon_cleanup		2008
		er( 0 );			internal only.	l functio	0	0	Ф	cleanup	:	
EDMDispatch.c 18					l only.	n which w					***************************************	daemon_cleanup
atch.c 18						dll clear						cleanup
						up daemo						
Pag				*/		Call function which will clean up daemon properly.					/	Page
Page 18 of 44				*		īy.						Page 18 of 44

6 /* EDMDispatchService.c
6 /* EDMDispatchService.c
*
9 * Mission Statement: RPC entry points.
10 * Primery Data Acted On:
13 * Compile-Time Options:
15 * Basic idea here: 16 */
### idefined(lint)  ### idefined(lint)  ### static char RCS_id [] = "### stacino.1.0 & do.49:15 & f.  #### static char RCS_id [] = "### stacino.1.0 & do.49:15 & f.  #### static char RCS_id [] = "### stacino.1.0 & do.49:15 & f.
#end1f
#include <esl c_portable.h=""> 25 #include <esl inout.h=""></esl></esl>
#include <logging logging.h=""> 28 #include <csc cscomm.h=""></csc></logging>
<pre>30 #include <restore csc_edmdispatch.h=""> 31 #include <restore dispatch_deemon.h=""></restore></restore></pre>
#include <edmdispatchlog.h> #include <edmdispatchsession.h></edmdispatchsession.h></edmdispatchlog.h>
These are all the spc entry points for the dispatch daemon.     The dispatch demon is multi-threaded and it is the main thread
4) */
44 static void FreeSessionInfo(SessionInfo *);
40 10 10 10 10 10 10 10 10 10 10 10 10 10
47 ** Routine: dd_initialize_1
50 ** Inputs: DD_initialize_args * -
52 ** Outputs: None
54 ** Keturn Codes: 55 ** DD_initialize_result * - result of init function cell
59 ** Intended Caller: Internal Only.
Mon Oct 13 16:06:00 2008 EDMDispatchService.c 1

Page 24 of 44	EDMDispatchService.c 6	Mon Oct 13 16:06:00 2008	 EDMDispatchService.c 5 Page 23 of 44		Mon Oct 13 16:06:00 2008	Mon O
				ss);	free(sess);	163 1
			 xt);	<pre>if (sess -&gt; next != NULL) FreeSessionInfo(sess -&gt; next);</pre>		160 1
				if (sess == NULL) return;		156 1 158 1
			 nTnfo *sess)	oratio world PressentionInfo (SectionInfo *sess)	or and d	É
			 "Intended caller: Internal Only.	celler: Internal Only	** Intended	152
		- ipa	** Purpose: Function to free all SessionInfo structures in a list.	Function to free all	** Purpose:	150
				NOTE	:	149
				odes:	** Return Codes:	147
				None	** Outputs: Name	145
			o free	** Inputs: SessionInfo * - arg to free **	** Inputs:	143
				** Routine: FreeSessionInfo	** Routine:	141
			 /;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	******************	/**********	119
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			static prhread_mutex_t	2.0
			static RWBinaryTree G_sessionTree;	61
			#include <edmdispatchlog.h></edmdispatchlog.h>	59
			#include crap/capami.by #include craprocapami.by #include craprocapami.by #include craprocapami.deptct_prococol_cliant.by #include capami.deptct_prococol_cliant.by #include capami.deptcdb.prococol_cliant.by #include capami.deptcdb.graprocap	5 5 5 5 5 5 5 6
			// Royne Nave infoliosa finciuda cafforlatt.b finciuda cafforlatt.b finciuda cafforlia.b finciuda cafforlia.b finciuda cafforlia.b	58888
			finclude synthesed.by finclude commonly by finclude symptyme, by finclude symptyme, by finclude symptyme, by finclude symptyme, by	1 6 3 3 3
			#include ceal/c_portable.h> #include ceal/c_portable.h> #include ceal/inout.h>	5 4 5
	pthread_mutex_lock(&G_sessionTreeMtx);	1-4	<pre>/* #define _POSIX_SOURCE unable to compile with this define set */ /* #define _XOPEN_SOURCE unable to compile with this define set */</pre>	31 30
			### idefined(lint)	2 2 2 2 2
	<pre>static void LockSommionMutex() {     static boolean_ty first = TRUE;</pre>	86 1 87 1	/* /* /* /* /* /* /* /* /* /* /* /* /* /	20 21 23
	**	82 93	** Basic idea here: Wedule for session management */	18 17
	** Purpose: Lock the session mutex.	79 80	** USE_SUNREC - Complie source with sunrec support. If not set, assume DCE support.	15 14
	** Return Codes:  ** None	76	Compile-Time Options:	5 5 5
	** Outputs: None	7 7 3	** Primary Data Acted On:	10
		71		ss -4
	** Routine: LockSessionMutex	70	/* EDMDispatchSassion.cc	on un
one hour	static int maxDisconnectTime = SECONDS_PER_HOUR, // one hour	8 6	Copyright 1996,1999 EMC Corporation	. N -
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EDWDIspatchSession.cc 4	RVICE_FAILURE_NONEXEC;  ps(arg -> service);  ps(arg -> service);  uLL 66 arg -> hostname      uLL 66 arg -> hostname      d out because we do not be config for permission    t is a waste of cycles  RESTORE : boolean_ty allowed =	OUT DO_initiallse_result *res)  ( EDMGsmain *resion;     DMStreet	Routine: InitialiseSession  Routine: InitialiseCossion  Inputs: DD_initialise_args 'arg - args sent via RPC for scarting  struct sec_req 'req - the request block from RPC  Outputs: DD_initialise_result 'res - the result structure which  Operation succeeded or failed. tells whether  Return Codes:  Return Codes:  Return Codes:  Routes: Initialise a session for the GUI.
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ile ( sessionI (sess = (		RWBinaryTreeTterator *sessionTterator = new RWBinaryTreeIterator( G_sessionTree);	LockSessionMutex(); RWBinaryTreeIterato	EDMSession *sess; LockSessionMutex( RWBinaryTreeIters	void SendBingMessagesToSession() SendBingMessagesToSession() EIMSession *sess; LockSessionMutex(); RWBinaryTreeIterator *s	ngMessagesToSe MOession *sess CkSessionMutex BinaryTreeIter	(void emiliangearcosemicn() emiliangearcosemicn() EDMOseasionMatex(); LockGessionMatex(); NBhinaryTrealterator = new NWBinaryTrealterator( O_sessionTree);	respond	respond respond ngMessagesToSe NSession *sess NSessionMatex	pose: Queue u respond respond stressor sessionitex RSessionitex RSessionitex BinaryTreeIler	None pose: Queue u respond respond session *sessionMutex binaryTreeItel	Return Coder: Purpose: Queue u respond respond duBingtossagartc6s ELMSqussion ress LockSessionNices RMBinaryTreation	puts: None uzn Codes: None pose: Queue u respond respond RessangesToSe RSessionMutex R	pute: None pute: None var Codes: None pose: Queue respond resp	uts: None puts: None puts: None pose: Queue u respond respond respond Ression*esss Résssion*esss Résss Résssion*esss Résss	Line: SendPin  urts: None  puts: None  puts: None  von Codes:  None  pose: Queue u  respond  respond  sessionMatex  BinaryTresiter  BinaryTresiter
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sion*) (*se	z i= NOLL %	sessionIter	sessionIter	sessionIter	) sessionIter	) sessionIter	sessionIter	E  = NULL & SessionIter	should be co	should be constant the ping me should be constant the constant terms are sessionIter.	the ping masshould be corrected by the c	the ping meshould be constant the ping meshould be constant to the constant the con	should be constant the ping ments should be constant to the co	should be co	the ping me should be c	gesTuSession the ping me should be co
	*sessio	terator :	terator =	terator = n L &&	terator = n	terator = n L && *sessionIte	terator = n	terator = n	e considere	messages te considere	messages to considere	messages te considere	messages t	messages te considere	e considere e cons	sidn messages t e considere
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6:06:00 2008 EDMDispatchSession.cc 8 Page 32 of 44	Mon Oct 13 16:06:00 2008	Mon Oct 13 16:06:00 2008 EDMDispatchSession.cc 7 Page 31 of 44	on Oct 13
return 0;	391 1 392 }	return 0;	335 1
ret -> setLastSent(last);	389 1	ret -> setLastReceived(last);	333 1
<pre>sessID -&gt; high, sessID -&gt; low); return -1; }</pre>	385 2 386 2 387 1	<pre>sessID -&gt; high, sessID -&gt; low); }</pre>	329 2 330 2 331 1
"Failure to update session %ld:%ld sent time",	384 2	"Feilure to update session %ld:%ld received time",	328 2
EDMDispatch_logent( EDMDispatch_logent( EDMDispatch_logent(), 1,00 ERR, SESSION LOOKUP FAILED, 0,	383 2	E (	326 2
if (ret == NULL)	381 1	if (ret == NULL)	
delete session;	379 1	delete session;	123 1
UnlockSessionMutex();	377 1	UnlockSessionMutex();	321 1
ret = (EDMSession *) G_sessionTree.find((RWCollectable *) session);	375 1	ret * (EDMSession *) G_sessionTree.find({RWCollectable *) session);	1 616
LockSessionMutex();	373 1	LockSessionMutex();	317 1
session -> setSessionID(sessID);	371 1	session => setSessionID(sessID);	315 1
Seturn -1; return to crease a session prove //	367 2 368 2 369 1	<pre>return -1;</pre> <pre>"Pailure to create a session block");</pre>	311 2 312 2 513 1
{     EDWDispatch_logent(	365 2 366 2	nt(	309 2
if (session == NULL)	364 1	if (session == NULL)	
session = new EDMSession();	362 1	session = new EDMSession();	306 1
EDMSession *ret;	360 1	EDNSession "ret;	303 1
120	358	22	2 1 1
int   DdateSessionLastSent(DD_client_session_id *sessID) 	355 int	int updateSessionLastReceived(DD_client_session_id *sessID)	
			297 */
· · · · · · · · · · · · · · · · · · ·		经销售的现在分词 计电子电子电子 电放射 电电影电影 医医生生素 医医生生素 医克勒特氏 医多种毒素 医多种毒素 医克勒特氏 医克勒特氏试验检尿病 医多种性坏疽 医动物性坏疽	
time.	350 **	time.	294 **
Purpose: Update the specified session with the lastest sent message	:	Purpose: Update the specified session with the lastest received message	
U on success and non-zero otherwise	348	* 0 on success and non-zero otherwise	* *
** Return Codes:	346		90
Outputs: None	::	Outputs: None	288
something		* Inputs: DD_client_session_id *Session cast sent us something	
	341	Routine:	284 **
	: :		
/	338 /**	/24777744444444444444444444444444444444	282 /
6:06:00 2008 UpdateSessionLastSent Page 32 of 44	Mon Oct 13 16:06:00 2008	Mon Oct 13 16:06:00 2008 UpdateSessionLastReceived Page 31 of 44	on Oct 13

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		sessionIterator = new RWBinaryTreeIterator(reaperTree);	
		2	
		1 // things from the query tree.	447
		. 1 // If the resper tree has something in it then use those entries to remove	446
		1 UnlockSessionMutex();	444
		2 delete sessionTterator:	
		p- p-	439
			2
	,	// Insert it into the reaper tree	
redpennes.creat();	492 1	sess ->	
somortino clast().			430
delete sessionIterator;	488 3	100	
if (sessionTerator != NULL) {	486 2	if ( sess->getLastReceived( ) = 0)	428
// through with iterator	485 2	Particular - (managements of property of the particular of the par	
,	483 2	while (	425
sessID.high, sessID.low);	481 4		
relative to control session %ld:%ld",	480 4	RWBingryTreeIterator *sessionIterator = new RWBinaryTreeIterator(	621
EDMDispatch_logent(FILE,LINE, LOG_ERR, 0, 0,	479 4	1 LockSessionMutex();	421
if (ret != 0)	477 3	currime = time(NULL);	619
ret = deleteHandleSet(&sessID, &ELINKHandle, &scatus);	475 3	1 RWBinaryTree	
		1 time_t	416 1
curriame - maxbisconnectime);	972 4	int	1 2
sess -> getLastReceived(),		EDMSession *sess;	412
Haven't recieved anything since wid. Current sid., sessID.high, sessID.low,	471 4	-	Ē
. !	470 4	void	010
EDMDispatch_logent( FTTE . LOG INFO. 0. 0.	469 4	**	400
- area	468 4		407
	466 3		406
continue	465 4		404
"Failure to remove session ald: ald", sessID into sessID low);	463 4	: :	403
EDMDispatch_logent(FILE,LINE, LOG_ERR, 0, 0.	462 4	** Return Codes:	402
iff (ret != 0)	460 3		400
the transfer of the product of the p	430	** INDUCS: NONG	398
ret = removespassion(Sapasil), Satatus):		:	397
sess -> getSessionID(&sessID);	456 3	** Routine: CheckDispatchSessions	395
<pre>(sess = (EDMSession) ('sessionIterator)() := wubb / ( DD_client_session_id sessID;</pre>	454 3	●中央中央中央市场中央市场中央公司公司公司公司公司公司公司公司公司公司公司公司公司公司公司公司公司公司公司	394
-	452 2		
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Mon Oct 13 16:06:00 2008 EDMDispatchSession.cc 12 Page 35 of 44	Mon Oct 13 16:06:00 2008 EDMDispatchSession.cc 11 Page 35 of 44	Mon
File_, _LINE_, LOG_ERK, SESSION_LOGNORY Failure to lookup session %ld:%l	609	
2 EDMDispatch_logent	608	
delete sess;	9 ) ,	549
UnlockSessionMutex();	7 2 602	
<pre>ret = (EDMSession *) G_sessionTree.find((RWCollectable *) sess);</pre>		94.5
LockSessionMutex();		
sess -> setSessionID(said);	0 2 for (1 = 0; 1 < herr+1; 1++) 596	4 2 3
2 return -1;		
*status = SESSION_NC	getStderrSet(&stderrSet, &herr, &status);	537
		536
~ E		
н		530
	583 for (; i < hout+1; i++)	
	hout + 1, &stdoutSet, NULL, NULL, &timetowait)) >= 0)	
1 1f (	H	
y 6	i fd_set stderrSet;	521
u N	) P	520
1 if (status == NULL)	2 struct timevel timetowait = { 2 1, 0	815 815
1 EDMSession *ret;	6   int 1 = 0; 7   char buff[1024];	517
1 ( RDMSeesion	int selret = 0;	515
GetSessionStatus( DD_client_session_id *ssid, int *s_status, int *status)	1 { int hout = 0, herr = 0, status = 0;	513
*/ int		511
	*	509
** Purpose: Get status on the session.	********	508
	** Purpose: Drain whatever data is on stdout and stderr for sessions.	506
** Return Codes:	and the second s	505
::	** Return Codes:	503
** Outputs: int	11 ** Outputs: None 550	502
** Inputs: DD_client_session_id *ssid - session ID to check the status of	** Inputs: Nome	499
	** Routine: DrainSessionDescriptors	497
N 25	********	
· 对外外外的传统中的传统中央中央电影电影电影电影电影的特殊的对象中央中央电影的现在形式的现在形式的现在分词是中央中的目录中央中央的		495
Mon Oct 13 16:06:00 2008 GetSessionStatus Page 36 of 44	Mon Oct 13 16:06:00 2008 DrainSessionDescriptors Page 35 of 44 M	Mon

EDMDispatchSession.cc 14 Page 38 of 44	Mon Oct 13 16:06:00 2008	Mon Oc	Page 37 of 44	EDMDispatchSession.cc 13	Mon Oct 13 16:06:00 2008	Mon Oct
, sizeof(buff));	memset(buff, 0,	676 1				
res -> status = ret -> getStatus();	res -> status =	674 1				
res -> status = DD_SERVICE_FAILURE_NONEXEC; return;	res -> stat return;	670 2 671 2 672 1				
	ļ	667 2 668 2				
logent(	<pre>if (ret == NULL) {     EDMDispatch_logent(</pre>	664 1 665 2 666 2				
	delete sess;	662 1				
utex();	UnlockSessionMutex();	660 1				
ret = (EDMSession *) G_sessionTree.find((RWCollectable *) sess);	ret = (EDMSessi	658 1				
sx();	LockSessionMutex();	656 1				
sionID(&arg -> service_handle);	sess -> setSessionID(&arg ->	654 1				
*Failure to	return;	650 2 651 2 652 1				
ogent(	if (sess == NULL) {    // Give an error {         // Dispatch_logent(	647 1 648 2 649 2				
Session();	sess = new EDMSession();	645 1				
EDMSession *ses; EDMSession *res; Etatic char buff[CONNECT_HANDLE_SIZE];		641 1 642 1 643 1				
void  oatDiapatchStatus(IN DD_getsstvicestatus_args *arg,  OUT DD_getsstvicestatus_result *rss)  {	void GetDispatchStatus(]	637 638 639				
	*	635				
***************************************	* * * * * * * * * * * * * * * * * * * *	634				
Get status on the starting session.	Purpose:	692				
	** Return Codes: ** None	629				
MIRCHET Obstactor Succession of Tatter.	* 3	628				
DD_getservicestatus_result *res - the result structure which tells	Outputs:	626			٠	:
	,	625			return 0;	617 1
DD_getservicestatus_args *arg - session ID to check the		623		*s_status = ret -> getStatus();	*s_status * ret	615 1
GetDispatchStatus	Routine:	621				
/**************************************	/**************	620	low);	<pre>ssid -&gt; high, ssid -&gt; lo *status = SESSION_LOOKUP_FAILED; return 1;</pre>	*status = S	610 2 611 2
GetDispatchStatus Page 38 of 44	Mon Oct 13 16:06:00 2008	Mon Oc	Page 37 of 44	GetSessionStatus	Mon Oct 13 16:06:00 2008	Mon Oc

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	totalsessions = 1;	746 2		-
	UnlockSessionMutex(); return; }	742 3 743 3		eras automate arra
ion %ld:%ld", ice_handle.lo	"Failure to arg -> service_h	740 3 741 3		
ON_LOOKUP_FAILED, 0,	EDMDispatch_logent(FILE,LINE, LOG_ERR, SESSION	739 3		
	if (ret == NULL)			
	delete sess;	735 2		
ss);	ret = (EDNSession *) G_sessionTree.find(sess);	733 2		
e);	sess -> setSessionID(&arg -> service_handle);	731 2		
	UnlockSessionMutex(); return; }	727 3 728 3 729 2		
LOG_ERR, SESSION_NO_MEMORY, 0, to create a session block");	if (sees == NULL) { // Give an error   { // Give an error   EUMDispatch_logant(	722 2 723 3 724 3 725 3		
	<pre>{ // Looking for a single session. Do a find sess = new EDMSession();</pre>	719 2		
service_handle. low != 0)	if (arg -> service_handle.high != 0 && arg -> service_handle.			
	LockSessionMutex();	715 1		
	EDWSession *sess; EDWSession *ret; Sessionin *sunto, *slast; Sessioninc *sunto, *slast; static char buff[CONNECT_HANDLE_SIZE];	709 I 710 I 711 I 712 I 713 I		
	void GetDispatchInfo(IN DB_getservicestatus_args *arg, OUT SessionBlock *res)			
	*	704		
<b>桥</b> 桥 桥 桥 桥 桥 桥 桥 桥 号 号 号 号 号 号 号 号 号 号 号		700 701 702 703		
	** Return Codes:			
egarding the specified session	** Outputs: SessionBlock *res - the information regarding the specified	696	- 8 8 1	686
on ID to check the Status of	** Inputs: DD_getservicestatus_args *arg - session		to the second se	
	** Routine: GetDispatchInfo	692	N	681
*****			res -> hardle_handle_val = (char *) ret -> getConnectionHano	680
******	· 医克尔特氏试验检尿病 医克格特氏试验检尿病 医克格特氏 医克格特氏 医克格特氏 医克格特氏 医克格特氏 医克格特氏试验检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检		> status ** DD_SERVICE_RUNNING)	678
Page 40 of 44	Mon Oct 13 16:06:00 2008 GetDispatchInfo	Mon Oct	Mon Oct 13 16:06:00 2008 GetDispatchStatus Page 39 of 44	Mon

Mon Oct 13 16:06:00 2008	803 3	800 4	797 5			792 4		789 3	787 2	785 2	783 2	781 2	777 3 778 3 779 2	776 3	775 3		771 2	769 2	767 1	765 2		761 2 762 2	760 2	758 2	756 2	754 3	753 3	752 3	750 2	748 2	Mon Oct 13 1
16:06:00 2008 EDMDispatchSession.cc 17 Page 41 of 44	ret -> getSessionID(&sinfo -> service_hendle); sinfo -> status = ret -> getStatus(); sinfo -> status = ret -> getStatus();	sinfo = sinfo -> next;	breek;	if (sinfo -> next == NULL)	SessionInfo));	( cipfo -> nevt = (SecoionTofo *) Calloc(1, sizeof)	if (addnext)	int status;	while ( sessionIterator != NULL && (ret = (EDMSession*) ( *sessionIterator)()) != NULL )	boolean_ty addnext = FALSE;	RWBinaryTreeIterator *sessionIterator = new RWBinaryTreeIterator(G_sessionTree);	sinfo = res -> sess;	UnlockSessionMutex(); return; }	"Failure to allocate session info block");	EDMDispatch_logent(, LOG_ERR, SESSION_NO_MEMORY, 0,	If (res -> sess == NULL)	res -> sess = (SessionInfo *) calloc(1, sizeof(SessionInfo));	res -> totalsessions = 0;	else	<pre>sinfo -&gt; lastReceived = ret -&gt; getLastReceived();</pre>	<pre>sinfo -&gt; operation_type = ret -&gt; getOperationType(); einfo -&gt; lastCont = ret -&gt; getTastSent();</pre>	<pre>sinfo -&gt; status = ret -&gt; getStatus(); sinfo -&gt; jobstarttime = ret -&gt; getStartTime();</pre>	ret -> getSessionID(&sinfo -> service_hendle);	sinfo = res -> sess;	I ACCUTATION TO ACCUTATION ACCUTATION TO ACCUTATION ACCU	UnlockSessionMutex();	"Failure to allocate session info	EDMDispatch_logent( ETTE . LINE . LOS ERR. SESSION NO MEMORY, 0,	if (res -> sess == NULL)	res -> sess = (SessionInfo *) calloc(1, sizeof(SessionInfo));	Mon Oct 13 16:06:00 2008 GetDispatchInfo Page 41 of 44
Mon Oct 13 16:06:00 2008																			827 1 Unl	825 1 }	823 2	822 3	819 2		816 3		913	8113		806 3	Mon Oct 13 16:06:00 2008
																			UnlockSessionMutex();		-	delete sessionIterator;	if (sessionIterator I= NULL)	,	addnext = TRUE;	sinfo -> next = NULL	res -> totalsessions++;	&sinfo &sinfo	getHandleSet(	sinfo -> operation_ sinfo -> lastSent = sinfo -> lastReceiv	2002 2008
EDMDispatchSession.cc 18																						stor;	NULL)	í		E.	)B++;	<pre>&amp;sinfo -&gt; service_handle, &amp;sinfo -&gt; outhandle, &amp;sinfo -&gt; errhandle, &amp;status);</pre>		<pre>sinfo -&gt; operation_type = ret -&gt; getUperation(ype(); sinfo -&gt; lastSent = ret -&gt; getLastReceived(); sinfo -&gt; lastReceived = ret -&gt; getLastReceived();</pre>	Gerosparamilio
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88. Mo	886	884	876 877 878 879 880 881	87	869 869 870 871 872	8888	858 859 860 861	0 0 0 0	33222	84	842 843	200	888	832	831	N
Mon Oct 1	-		876 1 877 2 878 2 879 2 880 2 882 1	874 1	868 2 869 2 870 2 871 2 872 1	864 1 865 1 866 2	F 8 8 8 B	8 8 5 4 3 1	846 1 847 1 850 1							on Oct 1
1888 1	LockSessionMutex();	sess -> setSessionID(sess_id);	If (seas == NULL)  {     ENCLaparch_logan;	sess = new EDMSession();		*status = 0; if (G_sessionTree.isEmpty()) { EDMDispatch_logant(	<pre>if (assm_id == NULL) {     *stetus = SESSION_BAD_ARGS;     return -1; }</pre>	<pre>if (status == NULL) {     return -1; }</pre>	int int one of the control of the control of the control of the teacher)  OUT int teacher)  ENMonation teach  ENMonation teach	*	** Purpose: Remove the active session object between the GUI and the Service.	** Return Codes:  ** None	** Outputs:	** Routine: removeSession ** Inputs:	/·····································	Mon Oct 13 16:06:00 2008 removeSession Pe
Page 43 of 44			MORY, 0,		d:%ld>",					*	service.				* * * * * * * * * * * * * * * * * * * *	Page 43 of 44
Mon Oct 1										906 1	902 1	898 2 900 L	896 2	8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		Mon Oct
Mon Oct 13 16:06:00 2008										return 0;	delete ret; delete sess;	return -1;	delete sess;	EDMDispatch_logent(	UnlockSessionMutex(); if (ret == NULL)	Mon Oct 13 16:06:00 2008
EDMDispatchSession.cc 20												POONOR PARTIEST	sess_id -> high, sess_id -> lov	LINE, LOG_ERR, SESSION_LOOKUP_FAILED,		removeSession
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Mon Oct 13 18:00:37 2008	* Local headers	,	#include <abreport ebvl.h=""></abreport>	#include <eb rb_log.h=""></eb>	#include <eb eb_port.h=""></eb>	* Epoch headers.	/*	#include <sys wait.h=""></sys>	*/	* System headers.	#ORITINE _PUSIA_BOUNCE 1	*/	* The following is required for code that uses POSIX API's. Remove for non-POSIX, non-portable code.	A CONTROL ACTIVISA TARGETTANA AND ARREST OF AN ADMINISTRAL BALLINGS			/****	ANTICIA MITTO SEPTEMBER CONTRACTOR	** This section must list any compile time definitions	Compile-Time		** RSTSL Start	** The following functions comprise restoral management:	- starting the restoral of a submit object.	** restored and the scripts to be run before and after res	which define the set of objects	4	** Library.	** functions the control execution of the restore for the rest	** The intent of the contents of this file is to implement the	** Purpose:	** Copyright (c) 1998,1999 by EMC Corporation.	** File Name: RSLstart.c	**	***************************************	Mon Oct 13 16:00:37 2008
125	123	121	120	117	116	114	113	E	109	107	105	103	101	Lanco de	95	9	93				1 2 2	2			restoration, 80	to be	76	74	Restore Service 73		70	68	66	84	L	Page 1 of 134   Mon
1   ( BSI start 2 )	eerrno_ty RSTSL_Start( int SubmitObjectID, boolean_ty (*QuitTest)( void))		* SubmitObjectID	* Parameters:	* returned via RSS	* *	* *	_	÷	- 2	N N +					*		RunCleanupResTore(int SubmitObjectID,		The state of the s					extern int RunWorkItemRestores(int, boolean_ty (*CancelRestoreTest)());						extern int RunExecutable (const boolean_ty ResetUid,	#include <restore gispatch_daemon.n=""> #include <restore edmreprogressapi.n=""></restore></restore>	#include <restore reprogmsg.h=""></restore>		#include <rslinterns.h></rslinterns.h>	Mon Oct 13 16:00:37 2008 RSTSL_Start P
Page 2 of 134	Test)( void))	ignal			1	ects in a		* * * * * * * * * * * * * * * * * * * *				1dex++)\													reTest)());											Lage 2 of 104

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	t_all_ok = EP_RB_RECOVER_FEWFAIL;	239 3	/* set RE's internal status */	-	787
.edm.failed)	ret_all_ok = EP_RB_RECOVER_ALLFAIL; else if (stats.edm.successful > stats.ed	237 3	execution.");		
non enterests burgers .		236 3	rbe_log_stats( EP_RB_RECOVER_ABORT, "The restore was quit by the user during		181
cleanin					
	else if (stats.edm.failed)	234 2	if( OuitTest() ) /* check for abort before return */		
UTEFAILED;			rcp, SubmitObjectID, QuitTest);		
n getRestoreStatus.*);	rbe_log_stats( local stat. "Internal error: Failed in getRestoreStatus.");	232 3	PIFuncIndexStartRestore }		
_stat ))	<pre>if (0 != getRestoreStatus( 0, &amp;stats, &amp;local_stat {</pre>		setGlobalsCatus( KUNKK_STWIE_KKECUTE );  set RB's internal Status */		
	memset( &stats, 0, sizeof(EDMStats) );			NI pring	173
	int local_stat; EDMStats stats;	224 225 2 226 2	<pre>% ( rcp-&gt; rc_backup_app != 0 % ( NULL != rcp-&gt; currentPIptr-&gt; piFuncArray(</pre>	1 if (	171
k if any WIs failed */	<pre>1f (E_SUCCESS == (     ret_all_ok = ret_exec) )    /* check</pre>	223 1	if not a network restore, check if plugin has its own start function */	μ `*	169
check for abort before cleanup */	QuitFlag = QuitTest(); /* check for abo	220 1	rbe_log_stats(), "Restore Started with Client destination *8.", STR_SURE(rcp->rc_client_hostname));		166 1
ID,	<pre>ret_exec = ExecuteWorkItemRestore(SubmitObjectID</pre>	217 1 218 1			160 1
RE's internal status */	setGlobalStatus( EDMRE_STATE_EXECUTE );	215 1	rbe_log_stats(0, "Restore Started by user %s, Uid %d, Gid %d.",		
	return (EP_RH_MSCOVER_FREFALLED);	212 2	<pre>STR_SURE(rcp-&gt;rc_template_name), (rcp-&gt;rc_seveset_thread) ? "Alternate": "Primary");</pre>		
RB's internal status */	ED ); /* set	211 2	rbe_log_stats(0, "Restore Started of "\ "top level object: %s. template %s, trailset %s.", STR_SURE(fcp->tc_top_level_object.name),		155 1
preparation. Exit %d",	The restore failed during pre PrepareExit);		neme );	-	153 1
	if(PrepareExit != 0)			P4 P	
	return EP_RB_RECOVER_ABORT;	203 2	<pre>rbe_log_stats(0, "Restore Started application type %s.",</pre>		149 1
pe's internal status */	setGlobelStatus( EDMRE_STATE_USER_QUIT );	202 2	rbe_log_stats(0, "Restore Started at %s.", asctime);		147 1
the user during	rbe_log_stats(EP_RB_RECOVER_ABORT, "The restors was quit by the u		REMOVE_NEWLINE (asctime);		145 1
	<pre>if(EP_RB_RECOVER_ABORT == ret_pre) {</pre>	198 1	rcp->rc_cmd_last_waf_time = rcp->rc_cmd_starttime;		143 1
	&PrepareExit);	196 1	(void)ctime_r(&rcp->rc_cmd_starttime, asctime, 32);		161 1
	ret_pre = RunPrepareRestore(SubmitObjectID, QuitTest,	194 1	(void)time(&rcp->rc_cmd_starttime);		139 1
		192 1	memset(asctime, 0, 32);		137 1
	return( ret_exec );		char asctime[32];		135 1
's internal status */	else setGlobalStatus( EDMRE_STATE_SUCCESSFUL ); /* set RE's	188 2 189 2	CleanupExit = lean_ty QuitFl		
?'s internal status */	setGlobalStatus( EDMRE_STATE_FAILED );	187 2	int ret_post; int ret_sll_ok; int prepareExit = 0;		130 1
	S ( T CINCOTTO 1 - CAT DANS)		t ret_pre;	int	127
	return EP_RB_RECOVER_ABORT;	183 3		- 10	MOILC
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rage o or 134	00:37 2008 HSLstart.c 6	Mon Oct 13 16:00:37 2008	Mon Oct 13 16:00:37 2008 RSLstart.c 5 Page 5 of 134	Mon Oct
			/* RSTSL_Start */	287 }
			return( E_SUCCESS );	285 1
			setGlobalStatus( EDMRE_STATE_SUCCESSFUL ); /* set RE's internal status */	283 1
				281 1
			/* set RE's internal status */	
			setGlobalStatus( EDMRE_STATE_FAILED );	278 2
			rbe_log_stats(EP_BR_ECOVER_POSTFRALED,	274 2 275 2 276 2
			<pre>if( (CleanupExit != 0)    (E_SUCCESS != ret_post) )</pre>	
			return EP_RE_RECOVER_ABORT;	269 2 270 1
			"The restore was quit by the user during cleanup."); setGlobalStatus(EDMRE_SYMTE_USER_QUIT)); set RE's internal status */	267 2
	return E_SUCCESS;	316 1	11(EP_RH_RECOVER_ABORT == rec_posc) (	
	<pre>f (ret_RunWItem != 0) return EP_RB_RECOVER_EXECUTEFAILED;</pre>	313 1 if	FELTITE TEATUREMENT	262 1
	<pre>if (QuitTest() == TRUE)     return EP_RB_RECOVER_ABORT;</pre>	310 1 1	{ setGlobalStatus{ EDMRE_STATE_FAILED }; /* set RE's internal status */	
	sm_pop();	308 1 50		258 1
RunWorkItemRestores*);	rbe_log_stats(0, 'Internal error: Failed in RunWorkItemRestores');	304 2 305 2 306 1	return EP_RB_RECOVER_ABORT;	255 256 1
ores( SubmitObjectID, QuitTest)))	<pre>if(0 != (ret_RunWItem = RunWorkItemRestores(</pre>	303 1 1:	<pre>setGlobalStatus( EDMRE_STATE_USER_QUIT );</pre> /* set R5's internal status */	254 2
	rcp->error_message(0) = 0;	301 1 E	<pre>rbe_log_stats(EP_RB_RECOVER_ABORT,</pre>	252 2 253 2
	int ret_RunWItem; sm_push();		if(QuitFlag)	
5id))	ExecuteWorkTtemRestore(int SubmitObjectID, boolean_ty (*QuitTest) (void)) (	ь	ret_post = RunCleanupRestore(SubmitObjectID,	245 1 246 1 247 1
	seexino tv		***** ********************************	240 J 241 J 242 Z
Page 6 of 134	0:37 2008 ExecuteWorkItemRestore	Mon Oct 13 16:00:37 2008	Mon Oct 13 16:00:37 2008 RSTSL_Start Page 5 of 134	Mon Oct

Mon Oct 13 16:00:37 2008 RSLstart.c 8	Mon Oc	Mon Oct 13 16:00:37 2008 RSLstart.c 7 Page 7 of 134	Mon Oct 13
		return( E_SUCCESS );	372 1 373 }
			370 1
		<pre>if(TRUE ** restore_cancelled) return (EP_RB_RECOVER_ABORT);</pre>	367 2 368 2
		<pre>roe_log_scars(</pre>	
		QuitTest))	
		preprasenv, PrepareExit, &restore_canceiled,	359 2 360 2
		preBaccutable, prephaseurgs,	
		seculosalscaus and seculos if the Runder and Seculos if (-1 == Runder and the Seculos is the Runder and the Seculos is the seculos in the seculos in the seculos in the seculos is the seculos in the seculos in the seculos in the seculos is the seculos in the sec	353 2
		if(0 != stromp(preExecutable, ""))	351 1 352 2
		rba_log_stats(0,"Internal error: Failed in GetSOPrePhase*); return (EP_RB_RECOVER_FAYALERR);	
		op.ephoaeenv, &GetSOstatus))	345 1 146 2
		Lf(()  = GetSOPrephase(SubmitCO)zectI), property	3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Yes		*	338 1
		* GetSOPrePhase allocates prephasearys & prephaseanv. *This will need to be free'ed later.	336 1 337 1
		*PrepareExit = 0;	332 1
		char "Prephasenv = NULL; int GetSostatus = 0; char preENeoutable (EXECTITABLE_MAX); boolean_ty restore_cancelled = FALSE;	327 1 328 1 329 1 330 1
		char **prephaseargs = NULL;	
		<pre>http://www.new.new.new.new.new.new.new.new.new.</pre>	
boolean_ty alwaysFalse() ( return FALSE; }	375	statine EXECUPABLE NAX 1024	
Mon Oct 13 16:00:37 2008 alwaysHalse	Mon O	Mon Oct 13 16:00:37 2008 RunPrepareRestore Page 7 of 134	Mon Oct 1

n Oct	222	) N)	0 10	N	a N	N	N		N	3 1		N		. 10	. N	NN	N N	-	H	-	-	- 10	N 10	1 10	pa p		-	- 14	pa pa	-	٠,	,	_	ь,	٠,٠	p p		-	_		3	3
n Oct 13 16:00:37 2008	ignore_quit=FALI	* intercpetion is necessary	* cleanup scril	* of 1 will cause actu	* RESTORE_BREAL	* (CANCEL from		`•	_	abort=REST	eise ii(0!=runpnase_scacus)		abort=REST	if(QuitTest())	char *abort=NULL;	* If a quit has * RESTORE_BREAL	,	if(0 := stromp(postExecutable, ""))	#define RESTORE_BREAM	#define RESTORE_BREAK_TRUE		return (EP_RB_RECOVER_FATALERR);	rbe_log_stats(0,					PurgeTrailQueue(); if(0 := GetSOPostPhase(SubmitObjectID;	۲,	* This will need t	* GetSOPostPhase &		*CleanupExit = 0;	boolean_ty ignore_c	char postExecutable (EXECUTABLE_MAX); hoolean by restore cancelled = FALSE;	int GetSOstatus = 0;	char **postphaseargs = NULL		ď	static eerrno_ty RunCleanupRestore(int SubmitObjectID.	Oct to 10:00:00 E000	19 16:00:97 2008
RSLstart.c 9	ignore_quit=FALSE; if(NULL)=abort && NULL)=postphaseenv)	is necessary.	cleanup script, since we aiready know (Via the environment variable) that we are in "cleanup mode" and no further signal	of 1 will cause actual quit signals to be ignores by the		(CANCEL from gui), and are using the environment variable	ignore_quit is set to 1 when we have already processed a BREAK			abort=RESTORE_BREAK_ERROR;	idse_scacus)		abort=RESTORE_BREAK_TRUE;			* If a quit has been specified, we need to tweak the * RESTORE_BREAK environment variable if set		Executable, ""))	RESTORE_BREAK_ERROR "RESTORE_BREAK=E"	TRUE "RESTORE_BREAK=T"		OVER_FATALERR);	rbe_log_stats(0, "Internal error: Failed in GetSOPostPhase");	&GetSOstacus))	apostphaseenv,	EXECUTABLE_MAX,	postExecutable,	ese(SubmitObjectID,		to be free'ed later.	* GersGPostPhase allocates postphasœargs & postphaseenv.			ignore_quit=FALSE;	cancelled = FALSE;	a accuracy	(S = NULL)	int *CleanupExit)	boolean_ty (*QuitTest)(void),	SubmitObjectID,		RunCleanupRestore
Page 9 of 134		,	rther signal	by the	co crean	variable	essed a BREAK									Ψ	•						lase");																			Page 9 of 134
Mon Oct																480	478 1	476 2	475 2	473 3	472 3	471 3	469 2	468 2	466 2	465 2	463 2	462 2	461 2	459 2	458 3	456 4	455 5		453 6		449 5				442 3	Mon Oct
Mon Oct 13 16:00:37 2008																) recorn( placem	}	return (EP_I	if(TRUE == res	return (EP_F	rbe_log_stats(	1						if(-1 == RunE>	setGlobalStatu	-		isub++		EP_RB_RECO				if(s	wnile(c)	int isub=0; char *cptr;	,	Mon Oct 13 16:00:37 2008
HSLstart.c To																	99 ):	return (EP_RB_RECOVER_ABORT);	if(TRUE == restore_cancelled)	return (EP_RB_RECOVER_FATALERR);	_stats( .*Internal error: Failed in RunExecutable for cleanup.");		&restore_cancelled,	CleanupExit,	postphaseargs,	postExecutable,	NULL,	if(-1 == RunExecutable(FALSE,	setGlobalStatus ( EDMRE_STATE_POSTPHASE ); /* set RE's in:			0+++		EP_RB_RECOVER_MALLOC_FAILURE, "ALLOCATE TALLED IN REDECATOR OF	rbe_log_stats(	if(NULL==postphaseenv(isub])	postphaseenv[isub]=esl_strdup(abort); ignore_quit=TRUE;	<pre>if(strncmp(postphaseenv(isub), RESTORE_BREAK, strlen)</pre>	* Anna   Anna	0=0;		RunCleanupRestore
rage to of tag																					for cleanup.");		itTest))						SE ); /* set RE's internal status */					In Ranstart.c //				_BREAK,strlen( RESTORE_BREAK))==0)				Page 10 of 134

Mon O		487 1	483 484 1	Mon Oc
Mon Oct 13 16:00:37 2008		return( E_SUCCESS ); }	static eerrno_ty RunExecutionOverrideRestor	Mon Oct 13 16:00:37 2008 F
RSLstart.c 11			static eermo_ty RunExecutionOverrideReatore(int SubmitObjectID, boolean_ty ('QuitTest) (void))	RunExecutionOverrideRestore
Page 11 of 134			90	Page 11 of 134
Mon Oc				Mon Oct
Mon Oct 13 16:00:37 2008				Mon Oct 13 16:00:37 2008
Housanc iz				
rage iz or ion	Pro 17 of 184			Page 12 of 134

Dana 49 of 104
/*****
Options: This section must list any compile time definitions
The following functions comprise restoral management:
functions the control execution of work item restores for Restore
nlement the
/**************************************
The second secon

### Date of the property of th	Mon C	189 1		182 1		177 1 178 1 179 1	176	174	171	169	167	165	164	161	158	157	155	153	150	149	147	166	143	140	138	135		132	129	Mon Oc
e)user_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(1,treer_error(0,tr	RSLwisvr.c3	int HighestActiveTrail = 0; int HighestActiveTrail = 0;	<pre>int CountDrivesAvailable; int CountDrivesInUse = 0; int countDrivesInUse</pre>	int TrailRestoresCett; int TrailRestoresTotal;	int TrailRestoresRunning = 0; /* The number of trail restores running.	{    boolean_ty QuitFlag = FALSE;    boolean_ty SentQuit = FALSE;	RunWorkItemRestores(int SubmitObject, boolean_ty (*CancelRestoreTeSt))	NECHERS: THE A TOT BUCKBOOK	* CHILDRYMAN CATALOGUE.	* Args:  * SubmitObject  SubmitObject	* Runs a set of work item restores.	* RunWorkItemmestords()		<pre>boolean_ty *QuitFlag; int *CountDrivesInUse);</pre>	kunworkitemmes.	static int	ItemRestoreResults(	static int	struct timeval *timeout);	fd_set *exceptfds,	rd_set *readfds,	static int nfds,	/* End Stubs */	<pre>static int SendRunningWorkItemsQuit();</pre>	inc acacus);	steer int special handle, pindTrailDForWItem(int sTrailD,	TT TT TAY	static int	Static int DetermineGlobalDriveUse();	
e)user_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(0,treer_error(1,treer_error(0,tr	Mon Oc											224 1	222 1					211 1					202 1	200 1						190
			_user_erro	atemp_status))	<pre>+ determine the work item restores to run. +/ if(0 != ActivateTrailOueue(HighestActiveTrail,</pre>	Activate the Trail	HighestActiveTrail++;		(FALSE == QuitFlag))	while((CountDrivesInUse < CountDrivesAvailable) && (HighestActiveTrail < TrailRestoresTotal) &&	QuitFlag = CancelRestoreTest();	*/	* This is the start up loop to get the initial work item * restores started.		(void)rbe_user_error(0, "DBBUG: RunWorkItemRestores for	if(debugmode)	CountDrivesAvailable = DetermineGlobalDriveUse(/*Submit	TrailRestoresLeft = TrailRestoresTotal;			Internal error:	(model) the user error (0.	<pre>if(0 != GenerateTrailQueues(SibmitObject,</pre>	a)	10uld	queu	(void)   Degrees   The transfer   Total   Tota	1t(debugmode)		

int Trealized in	Mon Oct 13 16:00:37 2008 RSLwisvr.c 6	Mon	Boo 17 of 194	-
restore_results); esults(index, &TrailID, &results))				
restore_results)); esults(index, &TrailID,			fds, cannot continue.");	
restore_results));	EFfo :- Manual Company	367 5	(void)rbe_user_error(0,	
restore results));	A FAO - Washington Witnesday		<pre>if(0 := getFromSet(&amp;WorkItemFromFds, &amp;HighestFd, &amp;ZetStatus)) {</pre>	301 2 302 3
	memort (Sreenles 0. sizeof(wi :			
	FoundFds++;	363 5	Senegult = Tros;	298 3
	wi_restore_results results;	361 5	:3	
	int TrailID;			
			THE COLD WAS QUITE BY COLD A WATER BY	295 3
Fds))	if(FD_ISSET(index, &WorkItemFromFds))	357 4	(void)rbe_log_stats(0,	294 3
	( Character Continue of Trade   Co.	356 4	The Contract of the Contract o	293 3
	index++)	365 3	dellocateplant se (reentocate))	
FoundFds < ReadyFds);	ior(index = 0) (index < (HighestEd + 1)) && (FoundEds < ReadyEds);	353	struct timeval timeout = (5, 0);	
			int retStatus:	289 2
	QuitFlag = CancelRestoreTest();	351 3	int HighestFd = 0;	287 2
	* Check it che aser intracea a der	349 3		
OZ d. No ossoure	* schedule the next work roun rescore.	398 3	Sh(10(1))	385
we may went to	* If there are available fds then we may want to	347 3	} /* End while() initial startup roop "/	283 1
	*			
	-		TrailRestoresRunning++;	280 3
	&WorkItemFromFds);	343 4	if(temp_status > 0)	
s ready to read are ",	DebuglogFds("The file descriptors ready to read are ",	342 4		278 2
	if (debugmode)	340 3	/* WOLD MOLY HERY DO WELLOW TYOM GIVE AND	277 3
			t) . , nighteencetering,	
	index;	100	Trail %d restore	276 3
	int RoundEds = 0;	336 3	(void)rbe_log_stats(0,	275 3
			if(temp_status == U)	273 2
	{ /* Available fds */	333 2		
			recorn -r,	270 3
		331 2	/* RunWorkItemRestoresForTrail does its own error logging. /	
	X 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 67 5	*/	
	OnitFlag = CancelRestoreTest();			267 )
	{ /* timed out */	327 3	&CountDrivesInUse)))	266 2
	else if (0 == retStatus)		«Quicelas,	265 2
	-		CancelRestoreTest,	7 597
	return -1;	323 3		
			Count Drives Not lable.	263 2
"Internal error: Cannot get auxploc result fdg, cannot continue.");	"Internal erro	321 3	if (0 > (temp_status = Kunworkttemmencutes*** HighestActiveTrail,	262 2
(errno),	(void)rbe_user_error(RBRECOVER_MKERR(errno),	320 3		
	// arror */		recurn -L;	259 3
	NULL, NULL,	317 2	<ol> <li>for trailed %d, cannot continue.", HighestActiverrall);</li> </ol>	
romfds,	<pre>if(0 &gt; (retStatus = Select(Highestru + 1)</pre>		(void) Ene_user_error: Tinternal error: Cannot set drive acquired(	257 3
	#endif	314 2	(	
		313 2	<pre>if(0 := SetTQDrivesAcquired(HighestActiveTrail, 1, &amp;temp_status))</pre>	255 2
Whit on are ,	DebugLogFds("The file descriptors to wait on are		*/	
	( Capadimone)	310 3	* i.e. The count of running work item restores for this trail.	253 2
	### O	ы	* This sets the number or drives and means account trail restores.	252 2
	recurr -r,	306 3	/*	251 2
		MOII Oct	Mon Oct 13 16:00:37 2008 RunWorkItemRestores Page I/ 01 134	Mon Oct 1
res Page 18 of 134	19 16-00-37 2008 RunWorkitemRestores	160000		

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	( completed to or		-	430 7
	f(temp statue > 0)	481 B		
gnestActiveTrail);	return -1;	·	deactivate trail queue for trailed %d, cannot continue.", TrailID);	
or: Trail %d	"Internal error: Trail &d	10 1		426 8
	(void) the log state().	477 9	<pre>if(0 != DeactivateTrailQueue(TrailID, &amp;temp_status)) {</pre>	
	* restores.	176 9		
work item	* error if a trail queue had no work item	175 9	Trailmestoresteft;	422 7
trails	* Should attempt to run the next trails	173 9		
18 WE	/* If this Trail Had no work items we		;	419 7
	tricemp_scarce o)	171 9	if((0 == wiCount) && (0 == StartWorkItemforTrail))	
	}		*/	
	return -1;	168 9		615 6
/* ses ics own rogging.	/* KUNWOYKITEMRESCOYESFORIZELL GOES ICS OWN LOGGING	607 9	/* Testing for No work items left running or started	414 6
		466 9	TrailID, wiCount);	012 7
&CountDrivesInUse)))	03%	800	but %d wiCount workitem still running.",	
&QuitFlag,			EBUG: RunWorkItemRestores no	
CancelRestoreTest,		900	(void) rhe user error(0.	410 7
		463 8	if (debugmode)	408 6
CountDrivesAvailable.		462 8	return -1;	
RestoresForTrail( HighestActiveTrail,	<pre>if (0 &gt; (temp_status = RunWorkItemRestoresForTrail(</pre>	461 8		
	-	859 8	[Void]rbe_user_error(0, "Internal error: Cannot determine	403 7
	return -1;	458 9		
eTrail);	HighestActiveTrail);	657 9	if(0 := GetRunningWI(TrailID, &wiCount, &temp_status))	401 6
railid %d. cannot continue.".	drive acmired(2) for trailid %d. cannot continue.".	456 9	int wiCount;	399 6
	(void)rbe_user_error(0,	455 9		398 6
1		454 9		397 6
1, &temp_status))	<pre>if(0 := SetTQDrivesAcquired(     HighestActiveTrail, 1, &amp;temp_status))</pre>	453 8	left for	
		87	/* U work leams started aboved.  * lets check to see if this is the last work item	394 5
	return -1;	450 9	(StartWorkItemforTrail == 0)	
eTrail);	HighestActiveTrail);	19		
annot continue.",	activate trail queue(2) for trailid %d, cannot continue.",	acti	recurn -1;	191 %
Para Para Para Para Para Para Para Para	(void)rbe_user_error(0,	9	ItemRestoresForTrail does its own logging. */	
- and and a	and design to the second	446 9	( / Cacourtean Taroum Co.	388 6
atus))	L,	444 9		
sctiveTrail,	if(0 != ActivateTrailQueue(HighestActiveTrail,	443 8	oreTest,	385 5
	HighestActiveTrail++;	441 8		383
		8 60	if (0 > (StartWorkItemforTrail =	382 5
railable))	(CountDrivesInUse < CountDrivesAvailable))			
esTotal) &&	(HighestActiveTrail < TrailRestoresTotal) &&	437 7	CountDrivesInUse;	379 5
	*/ if (() := TrailRestoresLeft) &&			377 5
started.			* Based on if it passes or fails	
store will be	* drive available the next trail restore will be	434 7	* This is where we may want to retry the Work Item	374 5
started trail,	* there may be another not yet start	433 7		373 5
if a trail restore finished,	/ III test to to december,		return -1;	372 6
			/* HandleWorkItemRestoreResults will do its ow	371 6
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519 1 520	513 1 514 1 515 2 516 2 517 2	507 2 508 2 510 3		498 2 499 2 500 2 501 2 502 2 501 2		485 9 487 9	484 9
return 0;	<pre>} /* end while(i) */ if((0 == TrailRestore) (    (void)rbe_log_stats }</pre>	(0 == TrailReston {     break; }	TELLIO TrailBast	Parminate the loop if either  1) Sent the work items the quit AW  1) Sent the work items a running.  10 No Trail restores a running.  2) No more Trail restores are left.	} } } end for() */ } /* else Available fds */	Trail * C	484 9 /* I
	) // end whise[1] */ [f(() == TrailRestoreshumning) && (SentQuit!)) [( (vaiirbe_log_stati() estore was quit by user.   (vaiirbe_log_stati() estore was quit by user.	1.(()) = 1.61ARESCORSLETT))  {  (	responding 22 (Sentoniti)	* Terminate the loop if either  11 Sent the work items the quit AMD NO Trail restores a running.  2) No more frail restores are left.	fds */	* then we have started a new trail. */ TrailRestoresRunning++;	IF at least on work item was started for this
	estore guit.");					trail,	ted for this
		546 1 547	544 1	536 1 537 2 538 2 539 2 540 2 541 2	527 528 529 530 531 532 533 1	522 523 524 525	100
		return retSelect;	} while ((-1 == retSelect) && (EINTR == errno));	do ( retSelect = select(nids, retSelect, readids, retSelect = select(nids, seceptids, seceptids, timeout);	static in rids, shart int rids, static in rids, static varietie, state varietie, struct thewal 'timeout) int retelect.	<pre>/* Functions needed SendRunningNeckItemsQuit(); InterpretMorkItemRestoreResults(); InterpretMorkItemRestoreResults(); */</pre>	1001

Mon Oct 13 16:00:37 2008 BSLwigyr, c 12 Page 24 of 134	Mon Oct	Mon Oct 19 18-00-97 2008 DSI wisw 5 11	;
		to close the bulk fd. This file descriptor sing used any more. If we do not close it little descriptor leak because be all able to determine what it was when the monapletes.	606 1 608 1 609 1 608 1
/* InitiateMorKItemRestore() */	660 }	/* StartupAuxprocess does its own logging. */ return -1;	602 2 603 2 604 1
return 0;	658 1	if(E_SUCCESS != StartupAPResults)	600 1
return -1;	655 2 656 1	return -1; pure to commerce );	596 2 597 2 598 1
<pre>xillWorkItemRestore(</pre>	653 2	Internal Error: Could not get Remote Client name $\hat{\kappa}^*$	
deleteHandleSet( deleteHandleSet( deleteHandleSet( deleteHandleSet( auxprocVitals.xp_fd_from_x, EndTime, EP_RB_RECOVER_ALLFAIL, &status);	651 2	else ( ( (void):be user error(0,	592 1
* is why we are doing this right now.  * imm(&EndTime);	647 2 648 2 2	AP_catv, clientWame, clientPort);	
* logged in those calls, plus, we already know there was an error and that	646 2	StartupAPResults = StartupAuxprocess(0 /* XXX */, &AuxprocVitals,	586 2
* we do not want an auproc sitting around.  • If errors occur in deleteHandleSet or KillWorkItemRestore the	644 2 645 2	& clientFort, &SOstatus))	583 1
* the following code kills auxproc when recx or xcpio do not start	643 2	<pre>if (E_SUCCESS == GetSERcmGConnect SubmitDoID,     SubmitElemID     ClientMame, 256,</pre>	580 1 581 1
V. ELIOL HI SCHIERDENICS ON THE SUBMITEDIAN OF SUBM		return -1;	577 2 578 1
	638 640 2	<pre>(void)rbe_user_error(0,</pre>	575 2 576 2
/*		( asoscacus))	573 1 574 2
subpitelemin)  SubmitElemID)		Junk_executable, 1024, Sjunk_ergv, &AP_env,	570 1 571 1 572 1
if(0 > StartWorkItemRestore(rgp,	632 1	if(E_SUCCESS  = GetSOExecutionPhase(SubmitObjID,	569 1 569 1
return -1;	628 29 1	<pre>time_t Endine; /* Lets see if there are any environment variables to set.</pre>	565 1 566 1 567 1
<pre>(void)rbe_user_error(</pre>		int clientPort; int status;	563 1
&TempStatus))	625 1	int SOstatus;	561 1
AUXDECTICALS.XP_DIG, StartTime,	624 1	char **junk_argv; char **AP_env = NULL;	559 1 560 1
Submitted to	622 1	int TempStatus; char junk_executable[1024];	557 1 558 1
if(0 i= newHandlaSet(AuxprocVitals.xp_fd_Eco_X,	620 1	<pre>struct auxproc AuxprocVitels; eerroo_ty StartupARResults = EXIT_FAILURE; time_t Starttime;</pre>	554 1 555 1
time(&StartTime);	616 1	const int SubmitElemID)	552
close(AuxprocVitals.xp_fd_bulk_to_x);	614 1	eperrno TritisteWOrkItemRestore(const int SubmitObjID,	550
*/	612 1		
		MICH COLID TO	Mon C

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	(ret != 0)	784 1 if (ret 785 2 (		724 2
es < 3)	&DrainedFD, &TempStatus)) && retries < 3) retries++;		sleep(1); test_fd(fromFD); continue;	721 3 722 3 723 3
	<pre>0 != (ret = PopDrainResult(timeout,</pre>	778 1 while (0 !=	else	719 2
, cannot continue.");	de	775 2 return -1;	<pre>if(results-&gt;local_exit_set == TRUE) {     break;</pre>	
tch on from file	getFromFD	769 2 return -1; 770 1 } 771 1 if(FromFD != 772 2 { 773 2 (void)rbe	/*The remote result are not always going to 'be set. For example if the remote command 'is not started correctly.'	710 2 711 2 712 2 713 2
<pre>not get auxproc file , cannot continue.");</pre>	us	765 2 { void	<pre>if(test_fd_hup(FromFD) == 1)     fromFDMangUp = TRUE; } </pre>	
ressFD, &TempStatus))	n -1; getHandleSet( getFromFD, &FrograssFD, &TempStatus))	761 2 return 762 1 ) 764 1 if(0 != 9	<pre>(void)rbe_user_error(0,* Error in GetAuxprocResults*); return -1; }!() == GetAuxprocResultsStatus) {</pre>	700 3 701 2 703 3
error: Could not get auxproc pid for work item, cannot continue.");	(void)rbe_user_error(0, *Internal error: Could not get auxproc pid for work item, cannot continue."		<pre>if(-1 == GetAuxprocResultsStatus) {    /* GetAuxprocResults() does its own logging */</pre>	
Ξ	return -1; } !f(0 != qetPID(FromFD, &AuxProcPid, &TempStatus)	2	while ( (from FD results);  Galacter (From FD results);	691
, cannot continue.");	work items for trail		PART - GOTTONED = DYACTERSED = -1	
ETempStatus)) not decrement running		746 1 } 748 1 if(0 != 749 2 { 750 2 (void 751 2		685 1 1 1
	-1,		int DrainedFD; int wiCount;	680 1
omFD, TrailID, &TempStatus)) rnal error: Could not find trail id for findahed work leem, cannot continue.");	If(0 := FindTrailQueueOfMf(FromFD, TrailID, &TempStatus))  {  (void)The_user_error(0,	760 1 1f(0 := 741 2 { 742 2 (void 743 2	int ret = 0; int retres = 0; int cettes = 0; int cettes = 0; int cettes = 0; int cettes = 0; int templeacus; int Templeacus; int DealnResult; int DealnResult;	674 1 675 1 676 1 677 1 678 1
drain keeping busy in	-1; jive the progress thread a chance to sanwhile.	734 2 return 735 1 ) 736 1 /* Lets 9 737 1 * the m	*/ Shall end teamostoreResults(int FromED, Int TrailID, wl_restore_results *results) wl_restore_results *results)	668 670 671 672
(atus))  Could not push drain request, cannot continue.");	inRequest(FromFD, &TempStr_error(), "Internal error:		/* interperate return.  Drain progress.  Band final Progress for work item.  Delete the handle sex.	663 665 667
Page 26 of 134	2008 HandleWorkItemRestoreResults	Mon Oct 13 16:00:37 2008	Mon Oct 13 16:00:37 2008 HandleWorktlemRestoreResults Page 25 of 134	Mon O

Mon Oct 13 16:00:37 2008 RSLwisvr.c 16
1. return 0; /* End HandleWorkItemResCoreResults() */
-
N N
2 (void) rbe_user_error(0, DEBUG; HandleWorkStemBostoreNess 2 PID %d) results are local; %d: setF% remote: 2 PID %d) results are local_extr_status, 2 results > local_extr_status, 2 (
I ficialphonoces
close(ToFD); close(FromFD); close(ProgressFD);
(voidirbe_user_error(), auxproc; could not kill finished auxproc; cannot continue.")  return -1;
if(0 != KillWorkItemRestore(AuxProcPid.)   -1 /* Heck
2 return -1;
if( 0 i= deleroHandleSet(FromPD, EndYime, jobstet, &TempStatus))  2 (  (void)rbe_user_error(0,  *Internal error: Could not delete Handle  88t, cannot continue.*);
<pre>free(cemplectwame); free(trailsetName); }</pre>
&trailset &status)  z rbe_log_stats(0, "Restore Failure of ".")  "ton level object: %s, test
Mon Oct 13 16:00:37 2008

Mon Oct 13 16:00:37 2008 RSLwisvr.c 18 Page 30 of 134	Mon Oct	Mon Oct 13 16:00:37 2008 RSLwisvr.c 17 Page 29 of 134	Mon Oc
		if(temp_status == 0)	964 2
		temp_status = InitiateWorkItemRestore( submitObjID, submitelementID);	962 2
		return CountOfWorkItemRestoreStarted;	958 3 959 3 960 2
		if((-1 == popResults) && (SCHED_NO_MORE_JOBS == temp_status))	
		return -1;	954 3 955 2
return CountOfWorkItemRestoreStarted;  ) /* RunWorkItemRestoresForTrail() */	1013 1	"Internal error: Cannot pop work item off trail queue, cannot continue.");	953 3
	1012 1	(void)rbe_user_error(0,	952 3
break;	1010 3	(SCHED_NO_MORE_JOBS != temp_status))	950 2
else	1008 2	&submitelementID, &temp status))} &&	
continue; }	1006 3 1007 2	<pre>if((0 != [popResults = PopWIFromTrailQueue(TrailID,</pre>	946 2
<pre>£((DriveAcquiredForTrail &lt; DriveConcurencyForTrail) &amp;&amp;   ((*OontDriveSfTUBe) &lt; CountDrivesAvailable) &amp;&amp;   (FALSE == *QuirFlag))</pre>	1002 2 1003 2 1004 2	(*CountDrivesindse)**;	
*QuitFlag = CancelRestoreTest();	1000 2	while(1)	940 1
	998 2	wiCount;	938 1
return -1;		int temp_status; int CountOfWorkItemRestoreStarted = 0;	936 1
Internal error: Canno	996 3		935 1
{void}rbe_user_error(0,		int submitObjID; int submitelementID;	933 1
&DriveConcurencyForTrail, &temp_status))	992 2	int DriveAcquiredForTrail; int DriveConcurencyForTrail;	931 1
:f/O := GatTODriveConcurrency(TrailID.		int *CountDrivesInUse)	
return -L;	988 3 989 2	const int CountDrivesAveilable, boolean_ty (*CancelRestoreTest)(), boolean_ty *QuitFlag,	926 927 928
acquired, cannot continue.");		mRestoresForTrail(c	925
<pre>(void)rbe_user_error(0,</pre>	985 3	static int	923
&temp_status))		* returned.	921
<pre>if(0 != GetTDDrivesAcquired[TrailID, &amp;DriveAcquiredForTrail,</pre>		<ul> <li>' NECURN ALT</li> <li>if -1 then an error has occurred.</li> <li>if 0 or greater then the number of trail restores started will be</li> </ul>	919 920
CountOfWorkItemRestoreStarted++;	979 2		91.7
	977 2	<ul> <li>(0) QuitFlag indicatete whether the user has quit the restore.</li> <li>(0) CountDrivesToffse The count of trails in use by restore.</li> </ul>	915
return -1:		* (I) TrailID The id for this trail.  * (I) Country ives Available the total drives available to restore.	91.0
(void)rbe_user_error(0, "Internal error: Could not increment	974 3	* Args:	9112
<pre>if(0 i= IncrementRunningWI(TrailID, &amp;wiCount, &amp;temp_status))</pre>	972 2	* This function starts all the work item for the  * trail. For no this is set to one but concurrency  * will am he emperised	908
return -1/	969 3 970 2	Description	906
"submitObjID %d, submitelementID %d", submitObjID, submitelementID);		/* RunWorkItemRestoresPorTrail()	906
( /* InitiateWorkItemRestore() does its own logging */ (void)rbe_user_error(0, "Error in InitiateWorkItemRestore,"	965 3 966 3 967 3		
Mon Oct 13 16:00:37 2008 HunWorkItemHestoresFor Fail Page 30 0f 134	Mon Oc	Mon Oct 13 16:00:37 2008 RunWorkItemRestoresForTrail Page 29 of 134	Mon O

Mon Oct 13 16:00:37 2008 RSLwisvr.c 19 Page 31 of 134	·	ormimediobalbriveWee() O MAXIVY === not limiting Need resource may proposity NOTE: This should now work like eb_dc_ver.	Mon Oct 13 16:00:37 2008 DetermineGlobalDriveUse Page 31 of 134
H	1100 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1028 1029 1030 1 1031 1 1032 1 1033 1 1034 1	_
Mon Oct 13 16:00:37 2008 RSLwisvr.c 20	(void)rbs_user_error(0, internal error: Cannot get awarron pid list. return =1; return =0, index < count; index++) { OutworkItem#emtore(APlist(index)); return 0; } return 0;	static int SendkunitspöorkitomaQuit() (int %plis; int boulis;	Mon CCL 13 16:00:37 2008 Selignonthingworkieniscen
c 20 Page 32 of 134	cannot get auxproc pid list. cannot continue.*);	(status)	Kilenscon rage az or 134

Mon Oct 13 16:00:37 2008		1093 static int 1094 interpretWorkItemRes 1095 i { 1095 i { 1095 i }	1050 /* Stub this out for now.	Mon Oct 13 16:00:37 2008
RSLwisvr.c 21		scalic int scalic int Interpretectitaminerorementia(wi_restore_results *results) Teturn 0;	noprovenoment social receipt	InterpretWorkItemRestoreResults
Page 33 of 134		results)		Page 33 of 134
Mon Oct	1200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1061 1062 1 1063 1 1064 1 1065 1	1059	Mon Oct
Mon Oct 13 16:00:37 2008 RSLv	for(index=0]; findex=(.024); fit(PD_ISSET) fit(PD_ISSET); fit(PS_ISSET); fit(PS_I	<pre>td_set*rds) { int index, fd_count = 0; char buffer[4096]; char *bufptr = (char*)buffer;</pre>	nar *error_msg,	Mon Oct 13 16:00:37 2008 Debu
RSLwisvr.c 22 Page 34 of 134				DebugLogFds Page 34 of 134

Mon Oc												1104	1102 1	1100 1	1097 2 1098 2	1 9601	1094 1	1090 1	1 6801	1086	1085	Mon Oc
Mon Oct 13 16:00:37 2008													return ret_select;	) while((-1 == re	ret_select = se	do	FD_SET(fd, &read_fd);	struct timeval time	int ret_select;	( test_ra(int ra)	static int	Mon Oct 13 16:00:37 2008
RSLwisvr.c 23														<pre>while((-1 == ret_select) &amp;&amp; (EINTR == errno));</pre>	ret_select = select(fd + 1, &read_fd, NULL, NULL,		Ed);	meout = (0, 0);				test_fd
Page 35 of 134															&timeout);							Page 35 of 134
Mon Oc	1157	1154 2 1155 1	1152 1	1150 2	1148 1 1149 2		1143 1	1141 1	1137 1 1138 2 1139 2	1133 1 1134 1 1135 1	1127 1 1128 2 1129 2 1130 2 1131 1	1 5711	1124	-		1117	1116	1113	1111	1100	1106	Mon Oc
Mon Oct 13 16:00:37 2008	) /* end test_fd_hup() */	return 0;	else	return 1;	if(POLLHUP & fds.revents)	return -1,	if(-l *= ret_poll)	) while((-1 == ret_	<pre>do {     ret_poll = poll(&amp;fds, 1, 0);</pre>	<pre>fds.fd = fd; fds.events = POLLIN; fds.revents = 0; /* initialize */</pre>	<pre>if(fd &lt; 0) {     errno = BINVAL;     return -1; }</pre>	THE TRE DOLL	struct pollfd fds;	test_fd_hup(int fd)	*/	* 0 No HUP event re	* Returns: * 1 for HUP event received on Ed.	* Input fd the f.	att nes nec use n	* Description: Test	/* * test_fd_hup()	Mon Oct 13 16:00:37 2008
RSLwisvr.c 24	7 */				vents)			} while((-1 == ret_poll) && (EINVAL == errno));	%fds, 1, 0);	'* initialize */						celved on fd.	eceived on fd.	urgs: Input fd the file descriptor to check for the hang up condition.	ang op committeen.	Description: Test the supplied file descriptor to see if		test_fd_hup
Page 36 of 134																		ang up condition.		ree if		Page 36 of 134

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Oct	64 #include <ebreport ebvl.h=""></ebreport>	#include <ebutil eb_normalize.h=""></ebutil>	61 #include <eb log.h="" rb=""></eb>		58 * Epoch headers.	*	#include	sy #include <arring.h></arring.h>	sz #include <sys types.h=""></sys>	si #include <sys wait.h=""></sys>	_	48 * System headers.	0 /	TOSTAL POSTA DOUNG A	200	42 */		*	18 * Standard defines required to turn on OS features go here.			1			28 ** Compile-Time Options:		25	24 ** The following functions complise resource managements.	:	20 - 178 Geolig Leguico di Woln Legui Leguina.	1	** - The starting of work item restores.	16 ** These functions are provided to allow: 17 ** - The pine, fork, duping closing and exec of auxproc.	: :	: :	12 and Automotive Control of the Con	** functions the control execution of	The intent of the contents of this file is to implement	7 cx purpose:	:	5 ** Copyright (c) 1998,1999 by EMC Corporation.	** File Name: RSLauxmgr.C	*	医多角虫 医克尔尔氏性神经氏征检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检	Mon Oct 13 16:00:37 2008 Page 39 of 134
Н	121	119		117	116	115	114		112	111	110		109	-	106	105	103		102	101			-	96 95	3	92	98	9 0	20	96 1	2 8		25	80	78		76	,	73 2	72	70	6.0	67		_
Mon Oct 13 16:00:37 2008	* Inheritted from:	* This is a char ** whic	and the state of the control of the state of	* Notes:		* int clientSocketPort U		CHAIL	*anchard7fentNm	*	,	•	* (char) **auxproc_envp e		* (Out) struct auxozoc *xp -	* Args:	* variable need to be set b		* but are inherited from the parent (	* processing is it closes t		* This function pipe, fork, &  * its the just started auxproc		/* * StartupAuxprocess()	Sanatara Transferent rever account of	static char *	1110	y_privileges(s	static void	in	reset recovery privileges(struct recover_context *rcx,		extern int ChildDone(int child_pid,	extern char *strsignal(int sig);	extern int putenv(const char *string);		#define SUBMIT_FIELD_MAX 2048	#include <rslauxsupp.h></rslauxsupp.h>	#include <edmfork.h></edmfork.h>	#include <rstrormein.nv< td=""><td>#include <rslinterns.h></rslinterns.h></td><td>*/</td><td>* Local headers</td><td></td><td>Mon Oct 13 16:00:37 2008</td></rstrormein.nv<>	#include <rslinterns.h></rslinterns.h>	*/	* Local headers		Mon Oct 13 16:00:37 2008
RSLauxmgr.c 2		which last char * should be NULL.		Will indicating no environment	contact the client	fy the port	client name	solder when the comment was a second	Ř		environment. The rest of the en		environment variables to be ap		struct auxproc *xp preallocated structure to r.		be set for auxproc, they are set.	restore engine). If any environment	e parent (	ds that are not associ		exec auxproc. After wh with the Ping command.				blectID. int SubmitElemID):	Tite crissificat,	t recover_context *rcx,		int changed);	uct recover_context *rcx,		d_pid, int *child_result);	(1)	*Scring);					Ani .h>					
Page 40 of 134			auxproc.	to append to		number on which		this is the	restore.		environment is	auxproc.s	appended to	info	return vital			environment		d with	Some additional	it tests																							Page 40 of 134

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default: /* parent */	249 2		186 1
-	247 2	-	184 2
exit (1):		_exit(1); /* We are the child */	182 4
getpid());	243 3	auxproc_envp[index], getpid());	180 4
AUXPROCNAME,	241 3	"Unable to set auxproc environment %s,	179 4
"Unable to exec %s, for %s PID %d.",	240 3	<pre>rbe_log_stats(RBRECOVER_MKERR(errno),</pre>	178 4
The low otate/DREEDFORED METERS/OFTED)		if(0 != putenv(auxproc_envp(index)))	176 3
(char *)0);	236 3	<pre>tor(index=0; NULL != auxproc_envp[index]; index++) {</pre>	174 2
socket_host_str,		int index;	173 2
dbgmodestr,	234 3	IT(NULL := auxproc_envp)	171 1
r_bulk_ro_scr,			
w_fd_str,	231 3	*/	169 1
procnum_str, r fd str,	229 3	* the evironment that auxproc inherits from the	167 1
Auxproc_executable, /* argv 0 */	228 3	/* This below appends environment variables to	165 1
Auxproc_pathname, /* prog to execute */			
ret_exec = execlp(	226 3	<pre>rbe_log_stats(RBRECOVER_MKERR(errno), *pipe() failed*); return(RBRECOVER_MKERR(save_errno));</pre>	162 2
account for the form	224 4	SAVA BYTHO H BYTHO:	
socket_host_str[0] = 0;	223 4	pipe(prog_pipe_from) as -1)	159 1
	222 4	pipe(bulk pipe_to) == -1	157 1
0) 00	220 3	if (pipe(cmd_pipe_to) == -1	156 1
<pre>(void) sprintf(socket_port_str, *%d", clientSocketPort);</pre>	219 4	int prog_pipe_from[2];	154 1
1		int bulk_pipe_to(2);	153 1
if (NULL != socketClientNm)	216 3	int cmd_pipe_from(2);	151 1
<pre>(void)sprintf(w_prog_id_str, "%d", prog_pipe_from(wru)); (void)sprintf(dhomodastr, "%d", debugmode);</pre>	214 3	int auxproc_index = 0; /* alton Remove */	150 1
(void) sprintf(r_bulk_fd_str, "%d", bulk_pipe_to[RFD]);	213 3	int ping status:	149 1
<pre>(void)sprintf(x_td_str, "%d", cmd_pipe_fo(MFD]);</pre>	211 3		147 1
(void) sprintf(procnum_str, "%d", auxproc_index);	210 3	<pre>char *Ruxproc_pathname = AUXPROCPATHNAME;</pre>	145 1
SOCKEL_BOILEO1 = 10 )	802	int fd;	144
int ret_exec = 0;	207 3		142 1
char socket_port_str[32];	206 3	#define RFD 0 /* in a pipe, fd 0 is the read descriptor */	101 1
(256), (1 The late of the late	205 3		
char dbgmodestr[32];	204 3	*	138 1
char r_bulk_fd_str[32];		* 3) Is fork1 really going to work.	
char w_fd_str[32];	201 3	* 2) I need to fork() exec() suxproc.	136 1
char r_fd_str[32];	200 3	* NOTES::	134
Characterist Table	198 3	/*	131 1
			131 1
case 0: /* child */	195 2	<pre>cher *socketClientNn, int clientSocketPort)</pre>	129
return(RBRECOVER_MKERR(save_errno));		char **auxproc_envp,	128
save_errno = errno; rbe_log_stats(RBRECOVER_MKERR(errno), "fork() failed");	191 2	aprocess(int	126
case -1: /* Error */		eerrno_tv	125
<pre>switch (xp-&gt;xp_pid = EDMfork1())</pre>	188	* static eerrno_ty setup_aux_processes(struct recover_context *rcx) +/	122
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Mon Oct 13 16:00:37 2008
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257
                                                                                         #undef MAX_FD
                                                                                                        #undef
                                                                                                                                       #undef
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                #define PING_TEST_STR_SIZE 4 /* include the '\0' */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               #define
                                                                                                                          #undet
                                                                                                                                                      #undef
                                                                                                                                                                                                                                                                                                                                                                             if ((-1 == ping_status) ||
(NULL == resultsbuf) ||
                                                                                                                                                                                                                                                                                                                                                                                                                           ping_status = auxresults(fd,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                fd =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               auxcmdpacket(fd, 'P', PING_TEST_STR_SIZE, PING_TEST_STR);
                                                                                                                                                                                                                          free (resultsbuf);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              fd = xp->xp_fd_to_x;
                                                                                                                                                                                                                                                                           return(EP_RB_RECOVER_AUXPROC_DIED);
                                                                                                                                                                                                                                                                                                         rbe_log_stats(0, "%s ping start-up"
                                                                                                                                                                                                                                                                                                                         rec_api_log_csm(SUB_CSM_NO_PING_AUXPROC, NULL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if (debugmode)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    xp->xp_fd_prog_from_x = prog_pipe_from(RFU);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    xp->xp_fd_bulk_to_x = bulk_pipe_to[WFD];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      xp->xp_fd_to_x
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     xp->xp_fd_from_x
                                                                                                           WED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (void) close (prog_pipe_from(WFD));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (void)close(bulk_pipe_to(RFD]);
(void)close(cmd_pipe_from(WFD));
                                                                                                                          RFD
                                                                                                                                                         PING_TEST_STR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (void) close (cmd_pipe_to(RFD)).
                                                                                                                                       PING_TEST_STR_SIZE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PING_TEST_STR "abc"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   * In debugmode, exec the separate-process
                                                                         /* end of setup_aux_process() */
                                                                                                                                                                                                                                                                                                                                                           (stromp(resultsbuf, PING_TEST_STR) != 0))
                                                                                                                                                                                                                                                                                                                                                                                                                                                             xp-> xp_fd_from_x;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                auxcmdpacket(xp->xp_fd_to_x,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   version of the auxprocs (ptrace issue)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          but does want to save the other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          intended reader dies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         may be missed by the writer when the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            If these are not close EPIPE and SIGPIPE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           the fds used to read *from* the parent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              used to write "to" the parent, nor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The parent has no need for the
                                                                                                                                                                                                                                                                                             AUXPROCNAME)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      = cmd_pipe_to(WFD);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cmd_pipe_from(RFD);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       StartupAuxprocess
RSLauxmgr.c 5
                                                                                                                                                                                                                                                                                                                                                                                                                              'n,
                                                                                                                                                                                                                                                                                                                                                                                                                              0, &resultsbuf);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   'X', 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                £q.
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                                                                                                                                                                                                                                                                                                                                                                             start_cpiogen(struct recover_context
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                #define MAX_SUBMIT_FIELD 2048
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  * randinfo is the command line for the remote command.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Args
(1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NOTES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Returns
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            start_cpiogen()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 admin priveledges, and other values that would not vary for a potentially multi work item restore.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         memory and creates the restore command and sends it to auxproc.
                                                                                                                                                                                        char *p;
                                                                                                                                                                                                       size_t data_len = 0;
                                                                                                                                                                                                                             char *auxproc_databut;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                could be potentially unique for a work item restore.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Submit Element should be used to determine anything
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Submit Object should be used to determine user id.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The rcx structure should be used only to get the global values like the xcpiogen exectutable name and the config structure.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                rcx -- The recover context structure is carefully used below
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    xcpiogen's pid for success, -1 for failure
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              function. The results are for initialization.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Auxproc will start the romd (if necessary) and start xopiogen.
Auxproc will send the initialization reply which is read by this
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              the size of the restore command to send to auxproc,
                     struct mark_summary submit_summary
                                       char *errstr = "";
                                                       char *resultsbufptr = NULL;
                                                                                         remd_pkt0_info *pkt0p;
                                                                                                        int pid = -1,
                                                                                                                                                         int resfd;
                                                                                                                                                                        int i;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This function initiates a work item restore. It first determines
                                                                                                                          /* For Initialization results
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       auxprocnum -- auxoroc number may become obsolete.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      err_str -- Of work item initialization failures
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            submitElemID -- idententifies what and how to run witem
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           submitObjectID -- idententifies what and how to run restore.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          xp -- auxproc struct pointer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        *romdinfo[4] -- the roadinfo must be included.
results -- Of the work item restore initialization.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rcx -- Recover Context struct (Limited use)
                                                                                                                                                                                                                                                           char **err_str)
                                                                                                                                                                                                                                                                           rcmd_pkt0_info *results.
                                                                                                                                                                                                                                                                                             char *rcmdinfo[4],
                                                                                                                                                                                                                                                                                                            int auxprocnum,
                                                                                                                                                                                                                                                                                                                               int submitElemiD.
                                                                                                                                                                                                                                                                                                                                                                 struct auxproc *xp,
                                                                                                                                                                                                                                                                                                                                              int submitObjectID.
RSLauxmgr.c 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          start_cpiogen
                                                                                                                                                                                                                                                                                                                                                                                *YCX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 malloc's the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     chat
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               restore
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Mon Oct	442 1	438 1 439 1		432 2 433 2 434 1	428 1 429 1 430 1	424 2 425 2 1	420 I 621 I	015 2	412 1	400 Z 407 Z 408 Z		100 1 109 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	394 1 396 1	389 1 391 1 392 1	386 1	3 3 3 3	379 1 380 1	Mon Oct
Mon Oct 13 16:00:37 2008 RSLauxmgr.c 7 Page 45 of 134	data_len += strlen(remdinfo[2]) + 1; /* remd-locuteer */ data_len += strlen(remdinfo[2]) + 1; /* remd-locuteer */ data_len += strlen(remdinfo[2]) + 1; /* remd-remuser */	•	,,	<pre>rbg_log_stats(0, "Unable to get submit file."); return -1; }</pre>	<pre>if( GetSESubmitFile(submitD)fecED, submitElemID,</pre>	<pre>{     rem_log_state(0, "Unable to get socket host/port pair.");     return -1; }</pre>	if ( GerSBRemdCommect(aubmitObjectID, submitElemID, temp_socket_bast, Mask_SBBMT_FIELD, &domp_socket_bast, dooESSBsatus)  = 0}	<pre>rbe_log_stats(0, "Unable to get user name."); return -1;</pre>	<pre>1f( GetSOEffectiveUserName(submitObjectID) 1f( GetSOEffectiveUserName(submitObjectID) 1f( MAX_SUBMIT_FIEID, &amp;GetSOStatus) != 0)</pre>	<pre>trbe_log_stats(0, "Unable to get work item name."); return -1; }</pre>	<pre>if( GetSEWorkItemName(submittb)joetID, submitEllemID, temp_workitem_name, MAX_SUBMIT_FIELD,</pre>	clus. comp_nowner_nowner_nowner_flat(NX, SUBMIT_PIECD); char comp_socket_port; int comp_socket_port; int GetESSEctus = 0; int GetESSEctus = 0;	/* temporary variable for the submit object / element fields. */ char temp_schet_lost[MAX_SUBMIT_FIELD]; char temp_schet_lost[MAX_SUBMIT_FIELD]; char temp_schet_lost[MAX_SUBMIT_FIELD];	נוני	char total bytes string?;  char total bytes string?;  char total bytes string?;	All Addition and a "S",  All Addition and a "S",  that "outputs Like" = "Sd",  that "outputs Like" = "Sd",  that "outputs Like" = "D";  that "outputs Like" = "D";  that "outputs Like" = "D";  that "outputs Like" = "D";	/* Args for xcplogen */ Char *xcplogen_srgv0;	Mon Oct 13 16:00:37 2008 start_opiogen Page 45 of 134
-	502 503		496	492	490	484 485 486 487					467	465		4 5 6 5 5 5	451	4 4 4 8	446 1	ឣ
Mon Oct 13 16:00:37 2008 RSLauxmgr.c 8 Page 46 of 134	1 /* Add the size of the "total bytes" flag and value string	<pre>total_bytes_stringP = u_hyper_to_decimal(total_bytes);</pre>	total bytes = submit summary.len mkd files:	rbe_log_stats(0, "Thable to set submit size for xcpiogen."); cotal_bytes = ul_to_uh(0);	/* This is not a critical error. This may cause progress  * reporting problems! */	1 11(0 != Gechscherzedenhummary Gelbert L),  Authorities (Bentin L),  Authorities (Bentin L),  AddetSEStatus))	<ul> <li>Get the current total number of bytes to be processed from the mark summary u,byper so that we can then convert it to a decimal arring to be present to xxplogen().</li> </ul>	`	<pre>data_len += strlen(outputfd_fmt) + 1; data_len += strlen(progress_report_flag)</pre>	deta_len += strlen(scpioga_styv)) + 1;   deta_len += strlen(stynint_file_file) + 1;   deta_len += strlen(stynint_file) + 1;   deta_len += strlen(stynint_file) + 1;	else  2 {     xcplogen_axgv0 = rcx -> rc_cplogen_executable; }	xcpiogen_argv0 = strcthr(rex -> rc_opiogen_executable, '/'); if (NELL := xcpiogen_argv0);  e +xcpiogen_argv0;	1 xcglogen_axgc = 7;	/* xcplopen arguments. Pass traditional argv[0]		t data_lan += \$1200f (int); t data_lan += \$1200f (int); data_lan += \$1200f (int); data_lan += \$1200f (int); /* xpiagan-and */	data_len += strlen(temp_effective_uidname) + 1;	21 13 1

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<pre>(void)strcpy(p, outputfd_fmt); /* xcpiogen argv[3] */ p += strlen(outputfd_fmt) + 1;</pre>	632 1	p = auxproc_databuf;	
<pre>(void)strcpy(p, temp_submit_file); /* xcpiogen argv[2] */ p *= strlen(temp_submit_file) * 1;</pre>	628 1 629 1	'* Fill in the gunk. First, the remd info for the rsh part. $^{*\prime}$	562 1 563 1
<pre>(void)strcpy(p, submit_file_flag); /* xcpiogen argv[1] */ p += strlen(submit_file_flag) + 1;</pre>	625 1 626 1	<pre>auxproc_databuf = sm_fmailoc((unsigned)data_len);</pre>	560 1
<pre>(void)strcpy(p, xcpiogen_argv0); p += strlen(p)+1;</pre>	622 1 623 1	* Allocate memory to hold all this gunk we need to * shove towards our auxilliary process.	556 1 557 1
* The argy vector, which is argub, the outputfd * thingy, and the progress report mode flag. */	618 1 619 1 620 1	date_len += strlen(temp_workitem_name) + 1;	
<pre>memcpy(p, &amp;xcplogen_argo, sizeof (int)); p += sizeof (int); /*</pre>	pa pa pa	Minister outsite Journal, pl-recover_es ver_weeker, but sign and seeker, but sign and seeker, but sign and seeker is a contingent */  contingent_etget+;  contingent_etget+;	540 2 550 2 1
, The argc for the "xcplogen command", and its argv vector. , , , , , , , , , , , , , , , , , , ,	610 1 611 1 612 1	if (NULL  = pi && DEFAUT_EB_BUFSIZE  = pi-pi-perver_bufsize)	546 2
<pre>(void)strcpy(p, rcx -&gt; rc_cpiogen_executable); p += strlen(p)+1;</pre>	607 1	data_len += 1;	502 2
/* * The "xcplogen command" that we will run locally. */	603 1 604 1 605 1	data_len += strlen(pi->list)+1; } else	539 1
i 0; memogy(p, &i, siseof (int)); p += sizeof (int);	599 1 600 1	stopsearch: if (pi != NULL)	
* the flags, which are always zero currently */	595 1 596 1 597 1	goto stopsearch; /* %% exit both loops */	9999
p += sizeof (int);	593 1	<pre>( if (0 == strcmp(pi-&gt;name, temp_workitem_name))</pre>	527 3
memcpy(p, &1, sizeof(int));	591 1	<pre>{ for (pi = pq-&gt;pwilist; NULL != pi; pi = pi-&gt;next)</pre>	525 2 526 2
*/ i = 3; /* For argv[3] See outputfd_fmt below.*/	587 1	<pre>for (pi = NULL, pg = rex-&gt;rc_config-&gt;pgrouplist /* OX */;     NULL != pg;     pg = pg-&gt;next)     pg = fract)</pre>	522 1 523 1 524 1
The exploger-end-of-info, which tells expured which any has the partial format extrant to insert the actual output of number. Remember express each of the connections between exploser and the scale. This below eary is sent to assyppose to tell express which the below eary is sent to assyppose to tell express which eary memoric to publishe the format exting with the output of.	582 1 583 1 584 1 585 1	/* learn work item in config into 4 get lampsh of filaspoc ** 1898 changed break in inner loop to 'goto' to resume with ** found item.	516 1 517 1 518 1 519 1 520 1
(void)stropy(p), comp_errective_usumeme); p += strlen(p)+1; /*		<pre>datm_len += sizeof (int); datm_len += strlen(temp_socket_host) + 1;</pre>	513 1 514 1
*The human username which the remote should operate as		/* * Add size for db AFI socket info */	511 1 510 1 510 1
	570 2	data_len += strlen(total_bytes_strings) +1 /* xoplogen argv(6) */	507 1
<pre>for (i = 0; i &lt; 4; i++) (</pre>		*/ */ */ */ */ */ */ */ */ */ */ */ */ *	504 2
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		ket(xp-> xp_fd_to_x,	698 1
resultabufptr = (char * léjk; (void)aux; (void)aux; return -1;	757 2 758 2 759 2	* Send the restore command to avaprec. Awaproc will start * The remote command (if necessary) and xcplogen. */	694 1 695 1
) collect the useless 'r' reply packet	753 2 754 2 755 2	teturn 1)	
free (resultabufptr);		<pre>if ((size_t)(p = auxproc_databuf) != data_len) {     rho log state(0. *secortion failed: cmd size miscount*);</pre>	
"for work item \"%s\"" ,errstr, temp_workitem_name);	748 3	* assert that our arithmetic above was done correctly */	684 1
""" Error while starting auxproc, error es.		/*	
rbe_log_stats(0,	746 3	<pre>(void)strcpy(p, temp_workitem_name); p += strlen(p)+1;</pre>	680 1 681 1
if (strien(errstr) > (size t)0)		* workitem name	677 1
if (0 != pkt0p->feilcode) ( int ink;	739 1 740 2		
* if the fork failed, the opiogen start rails */	736 1	*D++ = 0:	672 2
		<pre>p += strlen(p)+1;</pre>	
<pre>errstr = ""; *err_str = esl_strdup("");</pre>	731 2	if (NULL  = pi) /* send filespec */	666 1 667 2
lse	729 1	p += strlen(p)+1;	664 1
errstr = resultsbufptr + sizeof *pktOp;     *err_str = esl_strdup(errstr);	726 2	* SOCKEE DOSE DAME FOR AD APL */  // // // // // // // // // // // //	
if ((pkt0p->msglen) > 0)	724 1	/*	
<pre>pkt0p = &amp;pkt0p_buffer; pkt0p = &amp;pkt0p_buffer; memopy(pkt0p, resultebufptr, sizeof(pkt0p_buffer)); memopy(results, resultebufptr, sizeof(pkt0p_buffer));</pre>	720 1 721 1 722 1	<pre>(void)memopy(p, (char *)&amp;temp_socket_port, sizeof (int)); p +s sizeof (int);</pre>	
/* This memory management is crap */	718 1	* socket info for db APT */	652 1
<pre>null_free (resultBbufptr); return l;</pre>	713 2 714 2 715 2 716 1	<pre>stcpty(p) total_bytes_ladp() + 1; p = strian(total_bytes_ladp) + 1; stcpty(p, total_bytes_stringP); /* xoplogen argv[??] */ p += strlen(total_bytes_stringP) + 1;</pre>	
<pre>if (i &lt; 0)  (</pre>	709 1 710 2 711 2 712 2	* Follow this with the total bytes flag and value. */	
i = auxresults(resfd, '0', 0, &resultsbufptr);		<pre>p += strlen(bufsizeP) + 1;</pre>	640 2 641 1
resfd = xp-> xp_fd_from_x;		<pre>if (bufsizeP != NULL) ( (void)strcpy(p,bufsizeP); /* xgpiogen argv{??} */</pre>	637 1 638 2
/* * Obtain the fork status	701 1 702 1	<pre>(void)strcpy(p, progress_report_flag); /* xcplogen srgv[4] */ p += strlen(progress_report_flag) + 1;</pre>	634 1
'r', (int)data_len, auxproc_databuf);	699 1	MOTI OF 18 18:00:37 2000 Stat Chinisten I was to on for	won Oc
Mon Oct 13 16:00:37 2008 start opiogen Page 50 of 134	Non Or	etart chicron	

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work items = the find workitem in confinitems workitem name	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
minus_c arg = temp_dirtop;	935 2 936 1			
if (temp_dirtop != NULL)	832 1 833 2			
rbe_log_state(0, *Unable to get work item name.*); return NULL; }	828 2 829 2 830 1			
<pre>if (GetSEWorkItemAnne(ShhmitO), StJmitEllemID,</pre>	823 1 824 1 825 1 826 1 827 2			
rbe_log_stats(0, "Unable to get dirtop."); return NULL; }	819 2 820 2 821 1			
<pre>if (GetSEDestDirTop(smint)d)sectD, stomitElamLD, if (GetSEDestDirTop(smint)dirtop, strangerteld_MAX,</pre>	815 1			
<pre>if (0 := GetESEkatus) {     rbe_log_state(0, 'Unable to get overwrite policy.');     return NULL; }</pre>	809 1 810 2 811 2 812 2 811 1			The transfer of a tenter of
i (NULL = rendpath)  ( return NULL;  return NULL;  tump_overwrite_policy = GetSEnerOverWritePolicy(SubmitObjectID, SobnitEStenID, Generouserum);  Generouserum);	801 1 802 2 803 2 804 1 805 1 805 1 807 1			
<pre>char temp_dirtop(SUBMIT_SIELD_MAX); char temp_workiem_amme(SUBMIT_FIELD_MAX); Ownwrite@bils(y temp_workrite_policy; int GetSEStatus = 0;</pre>	796 1 797 1 798 1 799 1			
char faining_c = **;  REC_MORETIEN ***;  char faining_c = **;  cha	785 1 786 1 787 1 788 1 798 1 790 1 791 1 791 2 791 2 791 1			
The Submitted Hemili)  Char *rcmdpath = generate_rcmdpath(Submitted)ectID.	783 1 ( 783 1 (	return pid; /* end of start_cplogen() */	return pid; /* end of :	771 1
<pre>make_remote_cpiogen_cmd(struct recover_context *rcx, int SubmitObjectID,</pre>		ifptr);	free (resultsbufptr);	769 1
'. 1) Remove rox references.		* Caller assumes responsibility for (eventually)  * collected exit status of remote and local programs.  */  */  * pkt0p-pid;	* Caller assumes * collected exi  */  pid = pkt0p->pid:	764 1
Mon Oct 13 16:00:37 2008 make_leniole_chodel_calid rage oz or over	Page 51 of 134 Mon Uct	start_cpiogen F	Mon Oct 13 16:00:37 2008	Mon Oc

Mon Oct		890 1 891	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	874 1 875 1 876 1 877 1 878 1			864 1 865 2 866 2	860 2 861 2 862 1	856 2 857 2 858 2	851 2 853 2 854 2		845 2 847 2		839 1 840 1	Mon Oct
Mon Oct 13 16:00:37 2008		return cmd; /* end of make_rem	cod = sm_tmalloc(!dm); (void) sprint(cmd, "sassassassas", compath, bufairap - mandabugflag, minus_c_sty, noclobse();	strien(bufsizeP) + strien(minus_c) + strien(minus_c, arg) + strien(minus_c, arg) + strien(minus_c, arg) + strien(minus_c, arg) +	len = strlen(remdpath) +	(void) sprintf (debugarg, "	<pre>if (debugmode) {     static char debugarg[100];</pre>	default: break; /* do some }	<pre>case RC_OVERPOL_NEW_CLOBBER:     noclobber = " -A -onewe     break;</pre>	<pre>cdse RC_OVERPOL_NO_CLOBBER:     noclobber = " -A -onev     break;</pre>	switch (temp_overwrite_policy)	<pre>sprintf(bufsize_buffer, "</pre>	if (work_itemP != NULL && DEFAULT_EB_BUFS		Mon Oct 13 16:00:37 2008 m:
RSLauxmgr.c 15		n.cmd; /* end of make_remote_cpiogest_cmd() */	, sassasa, , Clag, Clag, ,	1	4 Marsh 1	garg, " -x /tmp/RBRdebug%d	eg(100);	do something better here */	Aonewer";	_A -onever";	policy)	<pre>sprintf(bufsize_buffer, " -A -b -A %d",</pre>	RBC_FIND_WORKITEM_NO_OPTIONS); work_itemp != NULL && DEFRUIT_EB_BUFSIZE != work_itemp->recover_client_bufsize)	rex->re_con	make_remote_cpiogen_cmd
Page 53 of 134						", getpid( ));							M_MO_OPTIONS);	NULL, NULL, rex->re_config, /* OK */	Page 53 of 134
Mon Oc	953 1 954 1 955 1	945 1 946 2 947 2 948 3 949 3 950 2	936 1 937 1 938 1 939 1 940 1 941 1 942 1	930 1 931 1 932 1 934 2	926 2 927 2 928 1			916 1	910 1 911 1 912 1 913 1	ju.	903	105	895 896 898	894	Mon Oct
Mon Oct 13 16:00:37 2008	/* * no %h, just use the */ if (*pph == '\0')	for (pph = temp_scriptr { if (*pph == '%' &&	If there is a 8h in the rc_client_ac that means put the hostname in there Sprzy, no escapes implemented. You rc_client_scriptname with a literal	<pre>if ( GetSEDestClientNam {     rbe_log_stats(0, "Une     return NULL;</pre>	rbe_log_stats(0, "Una return NULL; }	if ( GetSERcmdScriptNam	int GetSEStatus = 0;	char "q; char temp_scriptname(SUBMIT_FIELD_MAX);	<pre>ststic char *mybuf = NULL; size_t len_needed; char *pph; /* pointer to %h char *p;</pre>	<pre>static char * generate_romdpath(int SubmitObjectID int SubmitElemID) {</pre>	* NOTE: caller must copy if string is	* Will be executed on the destinat:  * Will be executed on the destinat:  * Destination of the residual string.	* 1) Remove rox references. * 2) Research whether abc_normalize updates */	,	Mon Oct 13 16:00:37 2008
RSLauxmgr.c 16	* no th, just use the bare client scriptname */ */ */ (*pph == '\0')	<pre>(pph = temp_scriptname; *pph != '\0'; pph++) if (*pph == '%' &amp;&amp; *(pph+1) == 'h') break; }</pre>	riptname, can't have &h in it.	<pre>if ( GetSEnerClientNames(SubmitOSjerIT)</pre>	"Unable to get romd script name.");	<pre>if ( GetSERcmdScriptName(SubmitObjectID, SubmitElemID,</pre>	STEEL CASE WITH PARTY CASE AND ADDRESS OF THE PERSON OF TH	HMIT_FIELD_MAX];	r to %h */	itObjectID, nitElemID)	if string is to be preserved.	* Construct the path name of the remote command that * will be executed on the destination client. * Battern new to constructed string.	s. _normalize updates.		generate_rcmdpath
Page 54 of 134			an Tough.	SUBMIT_FIELD_MAX, stion name.");	3,	TELD_MAX,									Page 54 of 134

Mon Oct 13 16:00:37 2008 RSLauxmgr.c 20 Page 58 of 134	Page 57 of 134 Mon Oc	Pag	RSLauxmgr.c 19	Mon Oct 13 16:00:37 2008	Mon Oc
If (cxx->rc_mecowery_flags  = gc_mecrad_DEST_SYSAMMEN);  If (cxx->rc_mefertive_uid  = 0);  [ if (abchapmode)					
<pre>if (root_access) {     if (abbumpade)         rba_log_state(         rba_log_state()         rba_log. "the user is a mys admin for the dest client"); }</pre>	1117 1 1118 2 1119 2 1120 3 1121 3	d_priv);	hanged_priv) reset_recovery_privileges(rcx, changed_priv); rx crioquen_priv	<pre>if (changed_priv)     (</pre>	1091 1 1093 1 1094 2 1095 2 1096 1 1097 1
( introctacess;  spermo errnum;  changed = 0;  (void)rbc_canirecover(rox->rc_buman_uidname, &root_scoss,  rox->rc_buman_uidname, &root_scoss,  derrnum);	1100 1 1111 1 1111 1 1111 1 11114 1 11115 1 11116 1	ID,	} return -1; } return -1;  xcplogen_pid = start_cplogen(rcx, xp, samitobjectID, samitizlenID, rcrb, rcrb, rcrb, samitizlenID, rcrb, samitizlenID, rcrb, samitizlenID, rcrb, samitizlenID, rcrb, rcrb, rcb, rcb, rcb, rcb, rcb, r	return -1; } xcplogen_pid	
/ Check to see if the user has root access to the destination classic if no give him/her the root privileges on the recovery.  set to void  set recovery privileges (struct recover_context *rcx, set recovery privileges (struct recover_context *rcx,	1100 1101 1102 1102 1104 1106 1106 1108	cx, SubmitObjectID, SubmitElemID);	nt_hostname; nt_rbuname; nt_rbuname; te_cpiogen_cmd(r	rcmdv[0] = temp_clie rcmdv[1] = temp_clie rcmdv[2] = temp_clie rcmdv[3] = make_remc rcmdv[3] = make_remc	1074 1 1075 1 1076 1 1077 1 1077 1 1078 1 1079 1
Mon Oct 13 16:00:37 2008 set_recovery_privileges Page 58 of 134	Page 57 of 134 Mon Oc	Pagi	StartWorkItemRestore	Mon Oct 13 16:00:37 2008	Mon Oc

Mon Oct 13 16:00:37 2008 RSLauxmgr.c 21		1164 1 ) /* end of set_recovery_privileges() */	1161 3 YCM-FEC_EFFECELVE_UIGHTHE = FCX-746_IMMEN_UIGHTHER   YCHANGOD = SET_USER;		Mon Oct 13 16:00:37 2008 set_recovery_privileges
Page 59 of 134 N		==	1168 1169 1170	uid;	Page 59 of 134 M
Mon Oct 13 16:00:37 2008 RSLauxmgr.c 22			66 /* Reset the user's identity. The user may have root access 70 * on the destination client, but not on the source, and vice		Mon Oct 13 16:00:37 2008 reset_recovery_privileges
Page 60 of 134			nd vice		Page 60 of 134

Mon Oc	1261 1	1259 1	1258 1	1251 1 1252 2 1253 2 1254 2 1255 2	1249 1	1241 1 1242 1 1243 1 1244 1 1245 1 1246 1	1232 1 1233 1 1234 1 1235 1 1236 1 1237 1 1238 1	1227 1228 1229 1	1224	1223	1222	1220	1218	1217	1215	1214	1212	1210	1209	1208	1206	1205	1204	1202		Mon Oc
Mon Oct 13 16:00:37 2008	* routine, suxpro	* now that we hav	/*	<pre>if (debugmode) {     xbe_log_stats }</pre>	(void)kill(auxproc_pid, SIGUSR1);	Alert the augmont that we want of recorpio etc should also die as recorpio etc should nived the same of Morteador, die, world in recor.  * should not kill the augmont itse in notify supproc to the diminishing the same of the s	/* Auxproc will no  * TERM signal.  This will give.  * Clean up tmpfil  * xcpicgen will c  * this signal.	<pre>void QuitWorkItemRestore(int auxproc_pid) (</pre>	* ;		** Status.		** auxproc sent	** SIDE EFFECTS:	::	** none	** RETURN VALUE:	THE MONDEOUT	INP	:	** This function		** FUNCTION DESCRIPTION:	/**		Mon Oct 13 16:00:37 2008
RSLauxmgr.c 23	* routine, augrecasing handler, it will notify the user of the  * results and does the cleaning up.	now that we have indirectly killed the xcplogen and elected the		Jebugmode) rbe_log_state(0, "%s %d quiting restore in process", AUXNROCCUMME, auxproc_pid);	_pid, SIGUSR1);	Alert the auxproc that we want out.  * recomple etc should also die as a result  * recomple etc should also die as a result  * recomple etc should also die as a result  * recomple etc should also die result  * should not kill be accorptor the diminishing resurva.  * outly according to the diminishing resurva.	/* Aungace will now elect expiopen by sending the "TRNM signal." This will give acpiopen the ability to clean up toptions and clean-up sockets. Applopen will commit suicide as a result of this signal.	t auxproc_pid)			noticed by meaning were core	TERM signal to quit the restore. Auxproc will wait until the	the USRI signal, auxproc will					THE GOYDTOC DIG BROKEN & Page	id enverocre nid.		This function will start the workings restore termination.		ION:			QuitWorkItemRestore
Page 61 of 134	he user of the	m and alerted the		)rocess",			ū					I wait until the command's exit	send xcplogen the								e cerminacion.					Page 61 of 134
Mon Oct 13 16:00:37 2008																									1263 1 */ 1264 1 ret 1265 }	Mon Oct 13 16:00:37 2008
137 2008																									*/ return; /* QuitWorkItemRestore() */	37 2008
HSLauxingr.c z4																									tore() */	QuitWorkitemRestore
rage oz or 134																										Page 62 of 134

Mon Oct 1	2000	1330 5	1327 4	1325 4	1324 4	1322 4	1321 3	1320 3	1317 2	1316 3	1314 2	1312 2	1311 3	1309 2		1306 2		1 5051	1302 1	1301 3	1300 1	1298 1 (		1295		1292	_	1290		1287			1282				1277		_		1272		1269	1268		MOILOGE	2000
Mon Oct 13 16:00:37 2008 HSEauxingr.c 25 Page 63 or 134	L'OGRAND LA SANTA	results -> remote_exit_status = exit_stat; results -> remote_exit_set = TRUE; r = ratus rad4+:	if (-1 := n_read )	<pre>n_read = auxres2(resfd, 'R', sizeof(int), &amp;resbuf);</pre>	the 'R' command is the for the remote process status	•	if (1 ** fd_avail_test(resfd))	7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		rbe log stats(0, "GetAuxprocResults() called: '%c'", c);	if (debugmode)		return 0;	<pre>if(1 != pread_or_warn(restd, &amp;c, 1, auxproc_comn_warning)) </pre>		resbuf = (char *) &exit_stat;	while ((n_status_read < 2) && (1 == fd_avail_test(resfd)))	IIIc II_acacaatawa = 0;	char c = 0;		the extc_scar;	9	wi_restore_results *results)	int GetAuxprocResults (int resfd,		"/	**		**	** SIDE EFFECTS:	** ISS MANIORS OF TOCAT AND PARKET CONTRACTOR AND	RE2	(c) recovered more arms recovered.	** (1) regrd inc regules title decisions from adoptor.			** this routine is called.			** in the aux-process. The aux-process starts xopiogen and		** Inheritted from auxprocsig_handler().	** FUNCTION DESCRIPTION:		/** GetAuxprocResults()	MOII CG 10 10,000 CON CONTROL COOK	
MOILO											1376	1379 1	1373 1	13/1			1357 4		T305 3	1364 5		1361 5		1360 6	1358 5	1357 5	1355 5	1354 5	1353 4		1350 4	1349 4	1347 4	1346 3	1344 2	1343 2	1342 3	1341 4		1339 6		1336 4	1335 5		1333 6	2 0000	Mon Oct
MOI Oct 13 10:00:37 2000	10 10:00:07 2000										)* GetAuxprocResults() */	/ Amount of account to the	return n_status_read;	2 / 222244017	/* Sieep (1);"/		7	return -1;	0, "Inter	the log state	else	,	, 0, ,	rbe_log_sta	if (debugmode	n_status_resd++;	results -> lo	Torrito -> lo	if (-1 != n_rea	n read = allxres	*/	* the 'r' comm	^	if (1 == fd_avail_test(resfd))	erse if (c == r)	)		1000000	0, "Inter	rbe_log_stats(	o o o	-		nears.	( .	if (debuqmode)	MOU OCT 19 10:00:97 5000
i control i di con	DCI auvmor c 38										ults() */		1.*/						"Internal error: local exit status Incomplete.");				local exit status obtained:	rbe_log_stats(	2	Ŧ+;	results -> local_exit_set = TRUE;	cal exit status = exit statu	if (-1 != n_read )	2(resfd, 'r', sizeof(int), &		* the 'r' command is the for the local process status		_test(resfd))					"Internal error: remote exit status incompiete. ".	· ·				n. *remote exit status obtained: %d*, exit_stat);			Generalionneanie
. ago or or ror	Page 64 of 134																		s Incomplete.");				su", exit_stati)	200						resbuf);		cess status							s Tilcompraca. 1.	T-100001070 *1:				%d", exit_stat);			- ugo or or ror

Mon O	144U 2	1429 1 1430 2 1431 2 1433 2 1434 2 1436 2 1436 2 1437 2	1422 1 1423 2 1424 2 1425 2 1426 1	1415 1 1416 2 1417 2 1419 2 1420 1	1413 1	1407 1 1409 1 1409 1	1404	1398 1399 1400 1401 1402	1185 1186 1387 1388 1388 1190 1190 1191 1192 1193 1194	1380 1380 1382 1383	Mon O
Mon Oct 13 16:00:37 2008 RSLauxmgr.c 27 Page 65 of 134	return -1; /* no break necessary */		do  itilaDomane: = ChildDome(ep_Did, KapNesult);  iti = ChildDomeNet) sleep (1);  while (0 == ChildDomeNet);  while (0 == ChildDomeNet);	<pre>if (-1 sm killRet) {     the_log_stats(</pre>	killRet = kill(ap_pid, SIGTERM);	int killMet;  Int gleenlt;  Int gleenlt;  Chat apkamesoureconne;  Chat dacons suttl:  Int Childonese;  Int Childonese;	int KillWorkStemRestore(int ap_pid, int cmd_to)	Args:  a_p_id - auxproc pid.  ome_ic - auxproc end pipe.  Berura:  int Zero for sucress.	This routine also does the weighed for awarrer The weighed (Childbon)) elabinotes the defunct awarror process.  If the work item is running then one must do the following.  following.  July 10 the partners the rest from the and from pipe. July Call RillbockItemSeators() July Call RillbockItemSeators()	amRestore() work item restor	Mon Oct 13 16:00:37 2008 KillWorkhemRestore Page 65 of 134
Ε	_				1478	1472 1 1475 1 1476 1	1470 2	1463 2 1464 2 1465 2 1466 2 1467 2	1451 2 1452 2 1453 2 1454 3 1456 3 1456 3 1457 3 1460 2	1445 2 1445 2 1460 2 1467 2	Mon Oc
Mon Oct 13 16:00:37 2008					} /* KillWorkItemRestore() */	) /* auxcmdpacket(cmd_to, return 0;	break;	case(4):	case(2): case(3): [(SIGTESM := aphenult) [(nb_lop_state(0); case(0); case(0	case(1):  rbe_log_stats(0, stats)  "Sign " in appear.	Mon Oct 13 16:00:37 2008
HSLauxmgr.c 28					7	'q', 0, databuf);*/		(), "Sigterm did not bring down \"%s\": Pid: %d," " instead stopped by signal = %s\n", ap\mam, ap_tid, streignal(apResult));	pResult)  ()  ()  ()  ()  ()  ()  ()  ()  ()	(0). "Sigrerm did not bring down \"%a\"; Pid: %d." "Sigrerm did not bring down \"%a\"; Pid: %d.", apkeme, ap_pid, apkemil);	KillWorkItemRestore
rage oo or 134								": Pid: %d," \n",	n", Pid: 9d.,"	": Pid: %d,"	Page 66 of 134

	COOLOR COOL	MOIL OCT 10 10:00:01 2000	MOU OCI 19 1000007 2000 POLENDRIBERTO I 194	MOD OCT 15
Page 68 of 134		Mon Oct 13 15	rb_getmethod(	66 85
enum input_states		129		
boolean_ty first_call,		128	static char wifilediri) = "/usr/epoch/etc/";	2 2
char *remhostname.		126		
int remote_fd,		_	int logging_channel = -1;	
int prog_fd,	static boolean_ty parse_remote_stderr_info2(int prog_fd,	124 Stat	static int xcpiogen_prog_fd = -1;	85 89
	TNSTATE NEWDING	,		
	INSTATE_COPY_TO_STDOUT,	-	it sp_cdlexitdone = 0;	
	INSTATE_GATHER_STATUS,	**	int is symmeth = 0;	
	INSTATE SEARCH SUFFIXM,	po po	#detine MAX_FD 1024	
	INSTATE_SEARCH_FREE LAW,		#endif	
	INSTATE_SEARCH_PREFIXO,	-		52 #d
	INSTATE_NG,	٠.	#ifindef Printf	
	enum input_states {	113 enum	lint indinosa */	
		111 */	#include <edmlink edmlink_api.h=""></edmlink>	47 Pi
	exit status via *exitp.	*	/* FINETINE API */	_
the remote	back via the remote stderr stream; return the remote	109 . ×		
	Parse it, act on it according to protocol.			5 #1
	Read ramote stderr output from fd.	106 * 8	#include <rscinterns.h></rscinterns.h>	
		۲	#include <restore reprogmsg.h=""></restore>	39 #1
	H	102 1		
	char *ap_sockitem:			
		-	#include <ebutil eb_normalize.h=""></ebutil>	_
	int ap_have_shelltcp_port;	p.0	#include <epffdb rbfinclient.h=""></epffdb>	34 1
	Č	p	#include <epcontig rpcontig.n=""></epcontig>	
	int ap_resultdata:	95 1		
	char *ap_data;	+-	#include <cdl cdl_server.h=""></cdl>	
	int ap_datalen;	- 1	/* SPP header "/	28
	char an end:	3 1		
				26 #1
		-		
	int ap_r_fd;	1	#include <perrmo es<="" td=""><td></td></perrmo>	
		87 1	#include <sys wait.h=""></sys>	
	struct auxproc_context	_		21 #1
			#include <necdo.n></necdo.n>	
SLauxSupp.c */	extern int fd avail test(int); /* Found in RSLauxSupp.c			
0);	int *remote_exit);	81	#include <eb eb_port.h=""></eb>	17
a.	int xcpiogen_pid	80	HER	
og i alie.	int xcniocen fd,	78		
	int remote_fd,		~	12
	static int DemaxAuxChildren(int progress_fd,		inc	
boolean_ty *zero_byte_read);	boolean	74	int looprw(int fd, char *buf, int nbytes, int (*func)());	20
int restore_engine_prog_fd,	THE POTMORPH CONTRACTOR AND ADDRESS OF	73	torotic that the detacthed/host int tongurrancy, int tolient type)	
gen prog fd.	in the presentation of the control o		Table of Contents:	
uf, int nbytes);	ic int read_CDL_no_eintr(int fd, char *b			n 101
/* sigterm signal */ buf, int nbytes);	static void sigterm_handler(int sigvalue); /* sigterm signal static int write CDL no eintr(int fd, char *buf, int nbytes);	68 Stat	* Copyright (c) 1998, 1999 EMC Corporation. All rights reserved.	
/* "attention" signal */	static void sigusrl_handler(int sigvalue);	67 stat	RSLauxmain.c	2
ncy, uint_t *client_type);	register char *host, wint_t *concurrency, wint_t *client_type);	-	Will Out 10 10/00/or accord	INCOL TOOL TO
Page 68 of 134	:00:37 2008	Mon Oct 13 16:00:37 2008	18:00-37 2008 Page 67 of 134	Man Ont 12

Mon Oct 13 16:00:37 2008 RSLauxmain.c 4
119   static voidexec_separate_suxproc(context 'cxp)   120   static voidexec_separate_suxproc(char 'pathname);
there is no significant to the 'z' letter - I just picked int a letter at random (hah!) to identify the top level funca- '/'
* * * *
167 static int attn_ec;
(Communications are assumed to be error-free.  * words, pipes are assumed to work correctly.  */
the same as the command format, though (obviously) the form of the data in a results packet is usually different from the format in a command packet.
<pre>134 * cdate=len&gt; may be zero, but must always be present. Therefore, the 155 * minimum command "packet" is five bytes long.</pre>
•
150 * where command scand is a one-byte command comman
* <cmd><deta-len><data></data></deta-len></cmd>
* The parent writes commands to the auxiliary process.  * The format of a command is:
141 /* The auxilliary pro
Mon Oct 13 16:00:37 2006

Mon Oct 13 16:00:37 2008 FSLauxmain.c 5 Page 71 of 134						213 } /* End main() */	211 1 return(0); /* Can we get here ?? */		200 1 debugmode = atol(argv(6));	<pre>initiancyco_intial_dalay_str = getent('AMERGO_INTYAL_BEAR'); initif (MiLL i enaproc_intial_dalay_str); initif (amproc_intial_dalay_int = atoi (amproc_intial_dalay_str); initif (amproc_intial_dalay_int); in</pre>	190 2 (\$X1E(1))	1 1f (	186 1 (char *auxproc_intial_delay_str = NULL; 186 1 int auxproc_intial_delay_int = 0;	Non Oct 13 16:00:37 2008   main   Page 71 of 134   res main (1st main (1st area char *area(1))
Mon Oct 13 1	381 1 / ignore mild keyboard interrupts (°C); parent handles 270 1 */ 271 1 eb_set_signal_handler(SIGINT, SIG_IGN, ∅_set, B_SA_RESTART);	256 1 sigomptyset(∅_set);	26.1 mmmesticitx, O, sizeof(struct auxproc_context)); 26.1 /* Peppare signation parameters	269 1 }	11 ((nnbex_fal == r_ch)			struct auguse_contest ctx;  sai struct auguse_t erent "sp)  si signst_t erent empty_set;  sint fortering empty_set;  int index_fd;  sint index_fd;  sint index_fd;	-	do_auxproc(1			215 / Worker-bee loop. 218 * Worker-bee loop. 217 * Read instructions on r_fd. 218 * Read instructions on r_fd.	Mon Oct 13 16:30:37 2008 do_auxproc Page 72 of 134

Т				-177 hours and make							-												T	1
Non Or	334 3 335 3	332 3	330 2	327 328 2 329 2		324 3 325 3	322 3		318 1	314 2 315 2	313 2	J12 2	308 I 309 I 310 2	306 2		298 I 299 I 300 I 301 I	293 1 294 1 295 1 296 1	291 1		283 1 284 1 285 1	3	280 1	Mon Oct	
Mon Oct 13 16:00:37 2008 RSLauxmain.c 7 Page 73 of 134	* have not opened logging yet. */	/* We would prefer to log this stuff, but we	NULL /*use the default name */, &crx.ap_contig, REC_PARSE_DO_NOT_PRESERVE   REC_PARSE_APPLY) != 0)	if (rbc_parse_config(	"Could not allocate memory in do_auxproc");	<pre>" " WriteFintStringMsg( Gis.ap w brod fd. EDMREPROGNSG AUXPROG_ERROR, 0,</pre>	<pre>/* We would prefer to log this stuff, but we * have not opened logging yet.</pre>	<pre>if(NULL == (ctx.ap_config = malloc(sizeof(</pre>	if (NULL == ctx.ap_config)	"Browsing of catalogs may continue, but" "the \"start\" command will not work.");	Error: Cannot find shell/top network service.\n"	WriteFmtStringNeg(	else (	<pre>ctx.ap_shelltcp_port = (ushort_t)sp-&gt;s_port; ctx.ap_have_shelltcp_port = 1;</pre>	<pre>ctx.ap_have_shelltcp_port = 0; if ((sp = getservbyname("shell", "tcp")) != NULL)</pre>	/* Will need the shell/tcp service later; if  * can't find it now we might as well complain now. */	ctx.aptotal_ti = %_DuNtor; ctx.apsocketbat = socketbat; ctx.ap_socketbat = socketbat; ctx.ap_socketport = socketbat;		The An one auxiliar according to the Annual	* Arguments passed are collected together in this context structure only because that makes it easier to add/change arguments in the fature teasier to add/change arguments in the fature	*	eb_set_signal_handler( SIGTERM, sigterm_handler, &smpty_set, E_SA_RESTART);	ofmier! handler	do guyano
Mon Oc	398 3 399 2 400 2	396 2 397 3	392 2 394 2			385 2 386 2	383 2	379 2 380 2 381 2	376 2 377 2	N N N	371 1 372 2	369 1	367 1	363 1 364 1	360 2 361 1		351 1 352 1 353 1	349 1	344 1 345 2 346 2 347 1	340 3 341 2 342 1	339 3	338 3	337 3	Mon Oct
Mon Oct 13 16:00:37 2008 RSLauxmain.c 8 Page 74 of 134	data = NULL;	<pre>if (datalen &gt; SMALL_DATALEN    datalen == 0) {</pre>	* We do the read lets for simple communication and take much data.		1	/* * read data-len	pread_or_die(r_fd, &c, 1, _exit);	* read command byte	char *data; char *data;	char c; int detalen; adefine SMALL_DATALEN 128	for (;;)	*/	"The actual worker-bee loop	<pre>(void)rbe_log_add(STATS_LOGSING, eb_recover_logpath, LOGT_FILE, rotation_size, &amp;logging_channel);</pre>	rotation_size = ctx.ap_config->srlfile.rotation_size;	rotation_size = RBHECOYEP_LOGSTEE; if (ctxx.ap_config  = ktruet rbc_confige *)NULL)  && (ctx.ap_config->srifile.filename != NULL))	/* Determine the 'recoveries.log' file rotation size.  * Use a default unless this was specified in the config file.  */	(void)rbe_log_init("auxproc");	<pre>if ((orrnum = eb_path_init()) != 0)</pre>	exit(1);	Eiler);	WriteFmtStringMsg( Ctx.ep_w_prog_fd, EDWREDEROGMSG_AUXEROC_ERROR, 0,	_api_log_csm(SUB_CSM_NO_PARSE_CFG, NULL);	Mon Oct 13 16:00:37 2006 do_auxproc Page 74 of 134

	No.	MOLOGLIO 10:00:01 5000	Mon Oct 13 16:00:37 2008 FSLauxmain.c 9 Fage 75 01 134	Mon Or
Dans 78 of 194			default: rec_api_log_csm(SUB_CSM_INV_AUXEROC_CMD, NULL); rbb_log_state( rbb_thoughearte( rbb_thoughearte); rbb_thoughearte(	463 3
			<pre>case 'X':    z_ewac_separate_auxproc(&amp;ctx, Yoame);    _ext(t2);    break;</pre>	458 3 460 3
			/. 'X'  New asparate process varsion of do_auxproc.  Dead for debugging:  New to value returned to parent.  If user falls, supproc diss.  //	452 J 453 J 455 J 456 J
			case'x'; z_rondfilter(&ctx); break;	447 3 448 3 449 3
			'r'	440 J 442 J 443 J 445 J
			case 'q'; checlose_logs(logging_chennel); _exit(0);	436 3 437 3 438 3
			', 'G',' ', Quit command.	402 3
			case 'P': conjesullan = ctx.ap_datelen; ctx.ap_resultdata = ctx.ap_date; ctx.ap_date; treek;	429 3 429 3
	) /* and of for loop */ /* and of fo awxproc() */	489 2 #endif /* e	* 'P' * Ping command. Used for debugging. */	423 3 424 3 425 3
t is %d.", getpid(),	<pre>rbe_log_stats(0, "Auxproc(%d) local exit is %d.", getpid(),</pre>	ها درا هرا مرا	switch (c)	420 2 421 J
	(if('r' == 0)	#if 0	<pre>when I wrote this comment).</pre>	418 2
exit);	sizeof ctx.ap_resultlen, pwrite_or_die(w_fd, ctx.ap_resultdata, ctx.ap_resultlen, _exit);	w w w c	**NOTE: This switch statement is in alpha-order  **NOTE: This switch statement is in alpha-order  **Cosme-folded to make it easier for humans  to find entries (at least, it was in alpha-order  to find entries (at least, it was in alpha-order	414 2 415 2
esultlen,	<pre>if (ctx.ap_resultien &gt;= 0) {     pwrite_or_die(w_fd, &amp;c, 1, _exit);     pwrite_or_die(w_fd, (char *)&amp;ctx.ap_resultien,</pre>	υ ω ω N	ctx.sp_mesuitlen = 0; ctx.sp_resuitdete = NULL;	
p_resultdata here:	<ul> <li>Simple commands set ap_resultien and ap_resultdate</li> <li>and we push the results to the parent here.</li> </ul>	471 2 471 2 472 2 473 2	+*ncmdg_revd; crx.pp_cmd = cr crx.pp_train = decalen;	
	break; /* end of switch */		<pre>pread.or_die(r_fd, buf, datalen, _exit); data = buf; }</pre>	402 3
Page 76 of 134	do_auxproc	Mon Oct 13 16:00:37 2008	Man Oct 13 16:00:37 2008 do_auxproc Page 75 of 184	Mon Oct

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			* Items which are (string) are '\0' terminated.	
			* Por example, if filter-end-fd-info is I, then filter-end-argul	_
			* *	
		_	* is set up	
			* is set up	
			* If filter-cmd-fd-info is -1, then stdout on the filter cmd	_
			s s + (RELIES) TITOS TITOS ANTOTONIO	
			* (string)	
			(305)	_
			* (string) filter-cmd-dr	
			* (string)	
			•	
			532 + (int) filter-cmd-argc	
			* (string) filter-ond	
		_	530 * (int) future-flags (flags for future nacks)	
	/* recover_size_prefix -/	591 }	* (inc)	
	return lbuff;	590 1	* (string)	-
			* (string)	_
		588 1	524 * (STELLEY) FORM - NOTHING	
	memset(lbuff, 0, sizeof(lbuff));	587 2	sessed quered	
		586		_
	AT SE	584		
	CAD - ACT COURTS	2 2		_
3);	cyn_san config_scrifile.rotation size);		* The 'R' result packet will not be sent if the '0' 1	_
TENT LOG SIZE: ".	sprintf(ibull, Es_man_curbunter of max cliffer in SIZE;",	582 2	•	_
	(	581 2		
FIRFLOND	if (cxp->ap_config->crlfile.rotation_size != NO_ROTATION)	580 1	the defined failure codes are:	
			sid * sent in the 'O' packet.	
	static char lbuff[128];	٠,		_
		-	uccessfully, then t	
	static char "	575		
			string ( string describing failure )	
	* for log truncation	572	sos * msglen : int [ length, in bytes, of following str ]	
AGETADIA				
wironment	Function to build command line prefix for adding environment	570 /*	* errnum : int [ 0 if r	
			success/retrare / rac	
	<pre>/* variable length char string message follows */</pre>	565 1	504 * It contains the following information:	-
	int pia;	565 1	503 + The '0' result packet describes the results of setting things up.	_
	int errnum;	564 1		-
	int failcode;	563 1	* ''' auxoroc parent	_
		۳	o andproc parent returns remote exit status	
	struct romd_pkt0_info		'O' anymor> marent returns "setup" result, see	-
		-		-
	TO CAMERA	**	* Fire up a process with stdin from	
V	no more than 10000 total bytes of auxproc data	556	`	
	than	555	_	Τ.
Page /8 01 134	Mon Oct 13 16:00:37 2008 recover_size_prefix	Mon Oct 13	Page 77 of 134	7
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/* EDMLINK global options */ unsigned long ELinkOptions = 0;
/* EDMLINK objects */ ELinkTargetObj = NULL; ELinkTargetObj ber_ty pELinkTargetObj = NULL; ELinkCmdObjer_ty pELinkCmdObj = NULL; ELinkCmdObjer_ty pELinkCmdObj = NULL;
pELinkHandle = NULL,
RBC_MORKITEM *pwi: RBC_WORKGROUP *pwg; booleen_ty xcpiogen_still_running;
/* hold rbralient command */
/* for command with ssl parameter
### Edatg[100]; /* BUILT-IN LIMIT felatg[100]; /* BUILT-IN LIMIT falter_cmd_argv[100]; /* BUILT-IN LIMIT databuf[10000];
-1;
listener_filename(EB_MAXPATHLEN);
static char readmode[] = "r"; char cbuf[200];
/* items for socket info file
wifilename[200];
socket_host[100];
filter_cmd_fdout;
filter_cmd_argc; filter_cmd_fd_info;
r_resultdata;
/* 0 hostname, i locuser, 2 remuser,
<pre>static void z_remdfilter(struct suxproc_context *exp)</pre>
z_remdtilter

MOIL OC 13 16:00:37 2000 LIGHT MOIL OC 13 16:00 05:01 104	IMOIT CO	MOTI CET 19 16:00:37 2006 HSLauxtrain.C 15 rage of 01 134	MOU CC
DOI gramain a 48		Sprincilcan_err_mag,	2 6/1
		cxp-vap_workitem);	778 3
method = "???"; break;		<pre>rbe_log_stats( 0, "\n ** No work item name \"%s\" in configuration file",</pre>	777 3
default:	828 3	char csm_err_msg[256];	715 3
break;	836 3		
method = "netware";		if (pwg == (RBC_WORKGROUP *)NULL)	7772 2
CHOTH NEWSANDE		for (pwg = cxp->ap_config->pgrouplist; ; pwg = pwg->next)	
breakı	832 3		7 697
case CNCIN_SCCKET:			768 2
SHADOWS OF CONTRACT		exit(1);	767 3
break;		0, "auxproc Cannot parse configuration file");	
case CNCIN_DIRECT:	826 3	rec_api_log_csm(SUB_CSM_NO_PARSE_CFG, NULL);	765 3
break;	823 3	RBC_PARSE_APPLY) != 0)	
case CNCTN_EDMLINK:		RBC_PARSE_DO_NOT_PRESERVE	762 2
As (local)	040	II (roc_parse_config;	
method = "rsh";	819 3		760 2
case CNCTN_RSH:		exit(1);	
switch (pwi->connection_type)	816 2	rbe_log_sta	758 3
	815 2	perace two-contrage	
if (CMCYNN RSH != pwi->connection_type) /* if other than rsh */	2	if(NULL == (cxp->ap_config = malloc(sizeof(	756 2
*/	812 1	i (NULL == CXD->ap_conrig)	754 1
* now check for a work item override of the connection method	810 1		
		*/	752 1
and present and a second	1 808	* Togeto work item in confir info	
morrod = "roh":	806 2		
"defaulting to \"rsh\" method\n",		pkt0_errstr = "";	748 1
\"@@\": "	*		
cxp ->ap_w_prog_tg, EUNKEPROGREG_NOAPROC_WARMING, o,	9	pkt0.errnum = 0;	745 1
WriteFmtStringMsg(	803 2	pkt0.failcode = 0;	744 1
	802 2	QUEA += BEEIGH (WORNICOM) T 1)	742 1
if ([method = rb getmethod(rcmd_stuff[0], NULL, NULL)) == NULL)	801	cxp->ap_workitem = workitem;	741 1
*/	799 1	workitem = data;	740 1
* connect by direct or rsh methods	798 1	*/	
gotit:		* extract workitem	737 1
		/*	736 1
	793 2	data += strlen(filespec) + 1;	734 1
		filespec = data;	733 1
goto gotit;	791 4	*	
<pre>if (0 == strcmp(pwi-&gt;name, cxp-&gt;ap_workitem))</pre>		* extract filespec	730 1
	768 3	/4	
for (pwi = pwg->pwilist; NULL != pwi; pwi = pwi->next)		data += strlen(socket_file) + 1;	727 1
		socket_file = data;	
<pre>xpe_rog_stats(o, cannot continue writed to work rown // exit(1);</pre>	783 3	*	
rec_api_log_csm(SUB_CSM_NO_WITEM_CFG, csm_err_msg);	782 3	* extract db API socket host name	727 1
OVER-VAR MOTERITOR NO WORK 100m nor do./",			
"Cannot re	780 3	zeof (int);	770 1
Mon Oct 13 16:00:37 2008 z_rcmdfilter Page 82 of 134	Mon Oct	Mon Oct 13 16:00:37 2008 z_rcmdfilter Page 81 of 134	Mon Oct

Mon Oct 13 16:00:37 2008 RSLauxmain.c 18 rage 84 01 134	Mon Oc	Mon Oct 13 16:00:37 2008 RSLauxmain.c 17 Page 83 of 134	lon Oct 13
		rend_stuff[3],	
*/	965 2	&rcmd_stuff(1), exp->ep_snellucp_port, exp, rcmd_stuff(1), rcmd_stuff(2),	904 2
' variable but first check for cross restore and make	963 2	romd_fd = ebr_direct_romd(	903 2
* SSE information to command string as an environment			01 2
		<pre>sprincr(notable; '( % % ) , God, cond_scart()); remd_stuff(3) = holdbuff;</pre>	900 3
**************************************	958 2	( contract of the second of th	
	957 3	if (strlen(cbuf) > (size_t)0)	97 2
<pre>pkt0_errstr = "shell/tcp service not round"; goto send 0;</pre>	955 4	stropy(cbuf, recover_size_prefix(cxp));	895 2
pkt0.failcode = 1,			
- 6	952	rcmd_stuff[2], rcmd_stuff[3]);	92 3
			891 3
cxp->ap_have_shelltcp_port = 1;	949 4	( the lor state() "Invoking and with &s. &s. &s. &s. %s.".	
( cobort   cobort   cobort   cobort	948 4	if (debugmode)	888
if ((sp = getservbyname("shell", "tcp")) != NULL)	947 3	*/	86 2
*/	945 3	* direct connection method here	
<pre>/* * Try to get the port number again.</pre>	943 3	<pre>if (0 == strcmp(method, "direct")) (</pre>	882 1
struct servent *sp;	941 3		
1f (: CXD->ab_nave_sneritcp_porc)			879 2
		(void) CDL_noatexit(); is symmpath = 1;	
* Set up the ramd connection (rsh method) to the alient.	936 2	#endit	ı,
""		(void) putenv('STP_EVTLOG_SHARE=OFF");	873 4
* rsh connection method here		(*Contagn ama ama ama (c. c. c	
inc rc = v; boolean_ty symmPathOK = FALSE; /*	930 2	<pre>#if 0 if ( NULL != getenv("EDM_STP_LOGGING"))</pre>	u u
			867 3
int numeroups = 0; /* for returned number of STG names */		if ( NULL != pwi->ssl_groupname )	
**stgNames;	925 2 926 2	<pre>if ( NULL == getenv("AUXPROC_DONOT_PERFORM_CDIMOATEXIT") ) if</pre>	65 4 1
char sslName(CDL_HOST_LENGTH);		*	
( /* variable for dealing with symm path and cross restore */	921 2 922 2	Environment variable is used here so the call to CDL_noatexit can be avoided, if desired.	860 1
wethod, "edmlink")) )	920 1	Shut off the SSL (STP) exit handler.	
}   (0 == atrong (morthed "yab"))   (0 == atrong (	918 2 919 1	If pwi-sesi_grouphame is not NULL we are going to be using SP for the restore.	856 1
goto send_0;	917 3	/* Occesions Worksround for STPclose() behavioral defect	
<pre>pkt0.failcode = 2; pkt0_errstr = "cannot set up remote connection";</pre>	914 3	<pre>( (void)system(pwi-&gt;recovery_init); )</pre>	851 2 852 2 853 1
if (remd_fd == NULL)	912 2	if (NULL != pwi && pwi->recovery_init) /* II a recovery init	1 058
	910 2		-
NULL := remd_fd) ? remd_fd[0] : -1), remd_stderr);	909 3		847
rbe_log_stats( 0, "AUXPROC: romd returned fd %d, stderr fd %d\n",		"using connection method \"%s\' due to work item \"%s\" override", method uwi->name);	0,
11 (debugmode)	906 2		844 3
&rcmd_stderr);	905 2	ebuqinode)	2 00 10
Mon Oct 13 16:00:37 2008 z_romdfilter Page 84 of 134	Mon Oct	Mon Oct 13 18:00:37 2008 z remdfilter Page 83 of 134	On Oct 13

**Systemens) / If x-recovery / 122   If (debugmode)  sprintf(cgr)-spg_error_message); to 2   If (debugmode)  sprintf(cgr)-spg_error_message); to 3   If (debugmode)  sprintf(chouff) - Gersageneric (sprintf(cgr)); red_error_message); to 3   If (debugmode)  sprintf(cgr)-spg_error_message); to 4   If (debugmode)  sprintf(chouff) - Gersageneric (sprintf(cgr)); red_error_message); to 4   If (debugmode)  sprintf(chouff) - Gersageneric (sprintf(cgr)); red_error_message); to 4   If (debugmode)  sprintf(cgr)-spg_error_message); to 4   If (debugmode)  sprintf(chouff); to 4   If (debugmode)  sprintf(chouff); to 5   If (debugmode)  sprintf(chouff); to	Mon Oct 13 16:00:37 2008 RSLauxmain.c 20 Page 86 of 134	Mon Oct 13	2008 RSLauxmain.c 19 Page 85 of 134	800c 75-00-31 51 100 molt
If (chdc_mame_host(), pwi-spethame)   / If x-recovery */				9
If (chdc_mame_boat(), pwi-spythame)   / If x-recovery //	<pre>/* initialize the edmlink api */ pELinkHandle = ELinkInitAPI( ELinkOptions );</pre>			
If (chdc_mame_boat(), pri-reprinted) /* If K-recovery */		1078 2	sprintf(sslbuff, "EB_SSL_RECOVER=\"%s\";	
If (chdc_mam_boat(), pwi-spethame) /* If x-recovery**	ELinkOptions  = ELINK_LOGLVL_DEBUG;	1076 3	strncpy( sslGroup,pwi->ssl_groupname,CDL_STG_LENGTH-1);	
If (chdc_mame_boat() pri-systamen) /* If x-recovery */   (cdc_mam_boat() pri-systamen) /* If x-recovery */   (cdc_mam_bo	( /s true on paint ship deburgation */	1075 3	memset(sslGroup, 0, CDL_STG_LENGTH);	
If (chdc_mame_host(), pri-spename) / If x-racevery / (codc_mame_host(), pri-spename) / If x-racevery / (code_mame_host(), pri-spename, pri-spename) / (code_mame_host(), pri-spename, pri-spename	if( debugmode )	1074 2		
If (chbc_mame_host(), pwi-spethame) / if x-recovery //   (chbc_mame_host(), pwi-spethame) / if x-recovery //   (chbc_mame_host(), pwi-spethame) / if x-recovery //   (chbc_mame_host(), pwi-spethame) // if (numbroupe_host(), pwi-spethame) // i	BEAUTOPULOUS - MALENCE COMMENTS	1072 2	/* not a cross recoveryjust normal SP	
If (chdc_mame_boat(), pwi-spyname)   / If x-racovery //   ( chdc_mame_boat(), pwi-spyname, pwi-spyname	( printing  - pring shert ponting:			
If (chbc_mame_host(), pri-spename) /* If K-racovery */   (chbc_mame_host(), pri-spename) /* If (chbc_mame_host(), chbc_mame_host(), chbc	<pre>/* enable the edmlink transport method */ if( 0 == stremp(method, "edmlink") )</pre>			
If (chbc_mame_host(), pwi-spethame) / if x-recovery //   Call_grouphame  = NHLL    (chbc_mame_host(), pwi-spethame) / if x-recovery //   Call_actif(), pwi-spethame) / if x-recovery //   Call_actif(), pwi-spethame) / if x-recovery //   Call_actif(), pwi-spethame) // if x-recovery // if (numbroupe	BUINKOPCIONS = BUINK_ORBUL_ACCU   BURNA_OCUME_ACCU		export EB_SSL_RECOVER ;	
Miles   Mile	/* set the initial edmink transport methods */		"EB_SSL_RECOVER=\"%s\" ;	
Miles   Mile	** EDMLINK API		-	
Miles   Mile	/*		sslGroup, stgNames [addIndex], CDL_STG_LENGTH-1); continue;	
Miles   Mile	, wastenerity		stricpy(	
	if not Symam Path and cbuf is NULL romd_stuff[]		<pre>if (0 == strcmp(</pre>	
Miles   Mile			<pre>while (addIndex &gt;= 0)</pre>	
Miles   Miles   Miles   Miles	<pre>sprintf(holdbuff, *( %s %s)*, sslbuff, rcmd_stuff(3]); rcmd snuff(3) = holdbuff;</pre>	1054 3	жeй	
	else if (symmFathOK == TRUE)	1052 2	<pre>strncpy(ss1Group, stgNames[0], CDL_STG_LENGTH-1);</pre>	
Mail			and the same and t	
	ECHIC_SCULE[3] - INTRODURA,	1048 4	* that as a default	
It (cheb_mam_boat() pwi-spathama) / If x-racovery /	sprintf(holdbuff, '(%8 %s)', cbuf, rcmd_stuff(3));	1047 4		
ywi-beal_grouphomen in NULLi  If (chdc_mams_blant (c) pwi-symname) /* If x-recovery */  (	0130	1045 3	If we don't	
Miles   Mile			* to see if the same STG group exists.	va .
	remd_stuff[3] = holdbuff;		* The destination client is SP enabled.	U 1
Mail	sprintf(holdbuff, "(		symmPatriOK = TROE;	
	if ( symmPathOK == TROB)	1040 3		
Mail   September   Million   Milli			B-lee	
	if (strlen(cbuf) > (size_t)0)			
	stropy(cbuf, recover_size_prefix(cxp));		* Default to network by leaving SP Flag set to Palse.	
			rbe_dser_error(o, errock);	
International Control   NULL)	cxp-vap_error_message[0] = 0;		100000000000000000000000000000000000000	
	the log stats(0. "%s", GMD->ab error message);		to use SymmPath for cross :	errStr.
1811   2			char errstr(128) ;	
Wei-Sablgrouphame  = NUUL)  If (:bbc_mam_bhat(	rend_stuff[0], exp->ap_shelltop_port, rend stuff[1],	1029 3	( ((iminatoupeo)   i iiv - oii	
ywi->sel_groupname i= NULL)  [	sprintf(cxp->ap_error_message, "Calling ELinkShell with %s, %d, %s, %s, %s",	1027 3	remd_stuff[0], &numGroups, &stgNames);	
yd->ssi_grouphamm != NOLL)  yd->ssi_grouphamm != NOLL)  if ('sbc_samm_boar(     romd_stuff(0), pwi->systamme)) /* if x-resovery */	-	1025 2	<pre>/* Grab the STG entries for this client */ rc = CDL getavailablegroups(</pre>	
ywi->ssl_groupname != NULL)			<pre>if (!enc_same_nose(</pre>	
net seel grownene is NILL)			The state of the s	ш к
t Contonior			f (not - sed) grownene (= NILL)	I Oct 10 10:00:07 6

Mon Cet 13 16:00:37 2008 PSEEduxinaling 22	Mon Oct 1	Mon Oct 13 16:00:37 2008 RSLauxmain.c 21 Page 87 of 134	Mon C
rbe_log_stats(	1204 4	"%s\n", cxp->ap_error_message);	
if (debugmode)	1202 3	WriteFmtStringMsg(cxp-> ap_w_prog_fd, EDWREPROGMSS_AUXEROC_ERROR, 0,	1142 3
<pre>pkt0.failcode = 2; pkt0_errstr = cxp-&gt;ap_error_message;</pre>	1199 3 1200 3	<pre>sprintf(cxp-&gt;ap_error_message,</pre>	1140 3
esl_strerror( ELinkStatus_errno), ELinkStatus_errno);	1197 3	if( NULL == pELinkcmdObj ) (	
rcmd_stuff[2], rcmd_stuff[3],		romd_stuff(3) };	1135 2
rcmd_stuff(0), cxp->ap_shelltop_port,		pELinkCmdObj = ELinkNewCmdObj( pELinkHandle,	1133 2
"ElinkShell with %s, %d, %s, %s, \"%s\",	1193 3	/* get new command object */	
sprintf(cxp->ap_error_message,		return;	1129 3
if (0 != ELinkStatus)		<pre>pELINKHANDLE, pELINKHANDLE, pELINKHANDLE);</pre>	1128 3
(void) ELinkDoneAPI( pELinkHandle );	1168 2	if( NULL != pELinkTergetObj ) (void) ELinkDestroyObj(	1126 3
<pre>if( NULL != pELINKCHOOD) / (void) ELINkDestroyObj( pELinkHandle, pELinkCmdObj );</pre>	1185 2	/* clean up and return */	
<pre>if( NULL != pELinkUserIdObj ) ; (void) ELinkDestroyObj ( pELinkHandle, pELinkUserIdObj );</pre>	1182 2 1183 2	WriteFmtStringMsg(cxp-> ap_w_prog_fd, ENMREPGOMSG_AUXFGC_ERROR, 0, "Could not create a new ENMLTMK user id	1122
<pre>(void) ELinkDestroyObj( pELinkHandle, pELinkTargetObj );</pre>	1179 2	if( NULL == pELinkUserrdObj )	
** EDMIINK: clean up and shut down the edmiink api  ** ** ** ** ** ** ** ** ** ** ** ** *		/* get new user id object */ /* get new user id object */ pELinkHandle, pELinkHangeCobj, pELinkHangeCobj,	1115 2 1116 2 1117 2
/*			1113 2
0, *AUXEROC: ELinkShell returned %d. errn %d.*  fd %d, stderr fd whur, ELinkStatus, ELinkStatus_errno, rcmd_fd[0], rcmd_stderr);	1172 3	rbellog_meats(). "Rs", cxp->dp_esrcc_message;; /*cold) ELIANDoneAFT( pbLinkBandle ); euurn;	11109 3
if (debugmode) {     rhe lor stats(	1168 2		1106 3
rcmd_fd[1] = rcmd_fd[0]; /* this one is bi-directional */	1166 2	WriteFmtStringMsg(cxp-> ap_w_prog_fd,	
<pre>strunt_top:// EtinkStatus_errno = errno;</pre>	1162 2 1163 2 1164 2	<pre>sprintf(exp-se_error_message,</pre>	1102 3
pELinkUserIdObj, pELinkCmdObj,		<pre>if( NULL == pELinkTargetObj ) {</pre>	1100 2
<pre>ELINKStatus = ELINKShell( pELINKHandle,     pELINKTargetObj,</pre>	1158 2	<pre>pELinkTargetObj = ELinkNewTargetObj( pELinkHandle,     rcmd_stuff[0] );</pre>	1098 2
rcmd_fd = rcmd_fds; /* set valid pointer */	1156 2	/* get new target host object */	
<pre>(void) ELinkDoneAPI( pELinkHandle );    return; }</pre>	1152 3 1153 3 1154 2	<pre>rbe_log_state(0, "%s", cxp-&gt;ap_error_message):     return;</pre>	1092 3
	1150 3	<pre>writeFmtStringMeg(exp &gt;&gt; ap.M_prog_fd,</pre>	1088 3 1089 3 1090 3
if (NULL != pELINTARGETÖD] )  if (NULL != pELINTARGETÖD] );  (vold) ELintAbestroyObj(, perintHendie, perintPargetObj );	1148 3	<pre>sprintf(cxp-&gt;ap_error_message,</pre>	1085 3
rbe_log_stats(0, "%s", cxp->ap_error_message);	1146 3	if( NULL == pELinkHandle )	1083 2
Mon Oct 13 16:00:37 2008 z_romdfilter Page 88 of 134	Mon Oct 13	Mon Oct 13 16:00:37 2008 z_randfilter Page 87 of 134	Mon Oc

MOI OU	Mon Ool	1262 1		1259 2	1256 3 1257 3	1253 4	1249 4 1250 4	1246 4 1247 4 1248 4		1239 1 1240 3	1236 4 1237 3	1234 4	1232 4 1233 4			1228 4			1221 3	1220 3	1218 3			1212 2		1207 3	1205 3		Mon Oct
	13 16-00-37 2008 Page 89 of 134	else if (0 == strcmp(method, 'netware'))			<pre>/* We connectedUse it */ rcmd_fd[0] = rcmd_fd[1] = newfd;</pre>	goto send_0;	<pre>pkt0.failcode = 2; pkt0_errstr = CDL_errstr(newfd);</pre>	( the_user_error(0, 'Unable to open an SSL listener connection CDL_client falled');	<pre>if ((newEd = CDL_client(remd_Ed()),</pre>	/* *Establish the SymmPath channel */	goto send_U;	configured in edm.conf";	<pre>pkt0_fallodde = 2;  pkt0_errstr = "Cross-restore is configured to go     pkt0_errstr = "brough SP, yet destination host is not"</pre>	rbe_user_error(0, errStr);	e the short SymmPath h	char errStr[128] ;	<pre>if ((strlen(rcmd_stuff(0)) &gt;= CDL_HOST_LENGTH) &amp;&amp;   (0 &gt;= CDL_getssthostname(sslName, rcmd_stuff(0))))</pre>	<pre>memset(sslName, 0, CDL_HOST_LENGTH); strncpy(sslName, rcmd_stuff(0), CDL_HOST_LENGTH-1);</pre>	* restore) */	because round stuff[0] == $pwi-ssi_groupname$ on a regular	* We're going to grab the short name saw allow the cress-restore.  * long network name.	/ a	int newfd; /* fd for SSL sopen call */	if (symmPathOK == TRUE)	/* add remainder of Symmetrix Path handshaking here if the we made it through the other Symm Path tests	goto sero_0;		ELinkStatus_errno, 'ELinkShell i	Mon Oct 13 16:00:37 2008 z_rondfilter Page 89 of 134
	Mon Oct	1328 4		1324 2		1319 2	1315 3	1310 3	1306 2	1303 2	1301 2	1298 4	1296 4	1294 3	1291 4	1290 3	1286 3		1282 2		1278 2 1279 2	1276 2	1275 2		1270 2 1271 2		1266 2		Mon Oct
	Non Oct 13 16:00:37 2006 RSLauxmain.c 24 Page 90 of 134	char *p3 = p2+2;	'if (('-' == *p2) && ('c' == p2[1]))	if (strlen(p2) >=2)	*/	<pre>/*     if a -c target:/path then take out target:</pre>	p2++; /* advance to start of next word */	/* skip ./host/bin/startrec */	for (p2 = remd_stuff(3); '\0' != *p2 && ' != *p2; p2++)	YCHO_TG = Fund_funk / Set vertue position /		<pre>pkt0_errstr = "snell/cop service not round ; goto send_0; }</pre>	the pkt0.failcode = 1;  pkt0.failcode = 1;		<pre>cxp-&gt;ap_shelltop_port = (ushort_t)sp-&gt;s_port; cxp-&gt;ap_have_shelltop_port = 1;</pre>	if ((sp = getservbyname("shell", "tcp")) != NULL)	* Try to get the port number again. $*/$	Schitch market als	if (! cxp->ap_nave_sneilcp_port) {	*/	/*  * Set up the remd connection (rsh method) to the client.	filter_cmd_argv(filter_cmd_argc) = NULL;	filter_cmd_argv[filter_cmd_argc++] = "-/"; /" always full path "/	char *cargec = NULL;	char targetbuf(EB_MAXPATHLEN); char *tsa = *?*;	char buf9[EB_MAXPATHLEN];	* netware connection method here		Mon Oct 13 16:00:37 2008 z_rcmdfilter Page 90 of 134

CNCTM_NETWARE == pwi->connection_type) ? "Socket" :  LID 4 CNCTM_NETWARE == pwi->connection_type) ? "Netware" :  LIO 4 CNCTM_NETWARE == pwi->connection_type) ? "Netware" :	1440 4	22:	The Party of Section
CNCTN_SOCKET == pwi->connection_type) ? "Socket" :  (CNCTN_NETWARE == pwi->connection_type) ? 'Netware" :			1390 3 GOLLES
<pre>CNCTN_SOCKET == pwi-&gt;connection_type) ? "Socket" :     ((</pre>			1369 3
CNOWN SOCKET == not-reconnection type) ? "Socket" :	1439 4		1387 5
	1438 4	goto gotit2;	1386 6
CNCTN_DIRECT == pwi->connection_type) ? "Direct" :			1385 6
	1437 4	<pre>if (ebc_same_host(pwi-&gt;sysname, rcmd_stuff[0]))</pre>	1384 5
CNCIN_EDMLINK == pwi->connection_type) ? "Edmlink" :	T430 4	tor (pwt = pwg->pwllist; Noth := pwl; pwt = pwl->Hext)	1382 4
CMCIN_KSm == [pwi->conneccion_cype,			1381 4
OWCOME DOG - DOG CONTROLL OF TWO 7 "Dah" .		pwg = pwg->next)	
pwi->name,	1434 4	for (pwg = cxp->ap_config->pgrouplist; NULL != pwg;	1380 3
method using netwere method",			T3.6 3
"was installed to use the netware	433	ranger = cargernar)	
connection method %s but client "	1432 4	The state of the s	1376 4
"work item \"%a\" apecifics	1431	if (*targetbuf != 0)	1375 3
WriteFmtStrangMsg(Cxp->ap_w_prog_rg, warning, 0,	1430 4	tsa = "?";	1370 3
	1429 4		
if (CNCTN_METWARE != pwi->connection_type)	1428 3		
	1427 3	RRC WORKTTRM *nwi2 = Dwi;	1370 3
if (NULL != pwi && (CNCTN_RSH != pwi->connection_type))	1426 2		
	1424 2	if (0 != stromp(	1369 2
pwi->nw_passwd != NULL) ? pwi->nw_passwd : "?"));			1367 2
The confidence of the control of the	1423 3	under	
rud and hearname != WHII) ? rwi->nw username : "?"),	1422 3	pwi points to work item config struct beckup was done	1366 2
taa,	1421 3	۶	
pwi->nw_clnt_target != NULL) ? pwi->nw_clnt_target : "?")),		etc. from	
. ((	1420 3	t now if it's a martimers cross recovery, get password,	1363 2
? target	1419 3	*	
			1361 2
Sprince:	1417 3		
	1416 3		1359 4
else	1415 2	strcpy(p4, p3+1);	1358 5
	1414 2	Cambosoca (c)	1356 6
pwi->nw_passwd (= NULL) ? pwi->nw_passwd : "?"));		tomorphism (n) a c c c	1355 6
	1	if (NULL 1= tempChar)	1354 5
pwi->nw username != NULL) ? pwi->nw_username : "?"),	1412 5	tempChar = strchr(p3+1,'\"');	1353 5
C S S S			1352 5
pwi->nw_cint_target != NULL) / pwi->Hw_cint_carger : ' ' ' '		p3++;	1350 6
: ((	1410 3	200 C-11	1360 6
? target	1409 3	(#//\*/ == m3[]])	1348 5
((target != NULL)	1408 3	terror = taymething:	1347 5
buf9, "r %s -target %s -tsa %s -login %s -epassword %s", p2,		SCHICEY (CONGRUENCE, Pa, Pr Pa)	1346 5
sprintf(	1400 3	cher * tempCher = NULL;	1345 5
CHAIR A DESCRIPTION OF THE PROPERTY OF THE PRO			1344 5
if (NULL != Dwt && (	1405 2	if (*p3 != 0) /* if found the prefix */	1342 4
*/	1404 2	_	1967 9
* check for an encrypted password	1403 2	DE GUEX )	1340 6
`*	1602 2		1339 6
	1400 2	((':' == *p3) && ('\"' == p3[1])))	1338 5
		if (((':' == *p3) && ('/' == p3[1]))	1337 5
<pre>pwi = pwi2; /* restore old value if ! found */</pre>		100 (1 (0 ) =	1335 4
( NODD Pw+)	1396 3	pd = p3; /* save this as start of the prefix */	1334 4
if ATTI me pari)			1333 9
*/	1394 3	p3++; /* advance to start of next word */	1331 5
	1392 3	while (' ' == *D3)	1330 4
/*  * : F we did not find a wi for the target system,	1391 3	char *p4;	1329 4
MULL OF 10 10 00 00 1	WOII Oct 10	00:37 2008 z_romdiliter rage 91 01 104	Mon Oct 13 16:00:37 2008

<pre>pwi-&gt;connection_port, pwi-&gt;sysne</pre>	1551 5	CNCTN_RSH == pwi->connection_type) ? "Rsh" :	
rbe_log_stats( 0, "using soc	1550 5	pwi->name,	1495 4
if (debugmode)		"client was installed to use the socket method using socket method",	1494 4
<pre>0 := pwi-&gt;connection_port) /* if port specified in work item 0 := pwi-&gt;connection_port) /* if port specified in work item</pre>	1546 3	EDMBERCOMSQ_AXXEROC_WARNING, U. "Work item \"&s\" specifies connection method %s but "	1492 4
h		WriteFmtStringMsg(cxp->ap_w_prog_fd,	1490 4
	1543 4	<pre>if (CNCTN_SCCKET != pwi-&gt;connection_type)</pre>	
<pre>rbe_log_stats(</pre>	1542 4	if (CNCTN_RSH != pwi->connection_type) /* if other than rsh */	1487 2
if (socket_port == -1)	1540 3	*/ * SOCKEC CONDECCTOR WASHINGT HERE	1484 2 1485 2
	1538 3		
wifilename);	1536 4	else if (0 sm stromp(method, "socket"))	1480 1
rbe_log_stats(0, "Unable to read eblistend	1534 4	<pre>goto send_0; }</pre>	1476 3 1479 2
* return the error to caller	1532 4	<pre>pkt0_errstr = "cannot set up remote connection";</pre>	
* The routine already logged an	1530 4	if (rcmd_fd(0) == -1)	1473 2 1474 3
C CONTRACTOR OF THE CONTRACTOR	1529 4	_	1471 2
if (arrain i= R SHCCRSS)			1470 3
	1525 3	rbe_log_stats(  n *alixarof: nwrond returned fd %d, stderr fd %d\n*,	1469 3
	1523 3	if (debugmode)	
errnum = eb_parse_listener_info_file	1521 3	rcmd_fd[1] = rcmd_fd[0]; /* this one is bi-directional */	1465 2
* Get socket information from Bollstein into tile	1519 3	<pre>pwi-&gt;ssl_groupname, pwi-&gt;ssl_clientname, TRUE);</pre>	1464 2
/*	1518 3	rcmd_stuff[1], rcmd_stuff[2], buf9, &rcmd_stderr,	1463 2
<pre>strcat(wifilename, socket_file);</pre>	1516 3	romd fd(f) = nwrcmd(&rcmd stuff[0], cxp->ap_shelltcp_port,	
	1514 4	romd_stuttilj, romo_stuttilj, bury))	1459 3
rbe_log_stats( 0, "No socket file name passed to auxproc\n");	1513 4	rend_stuff(0), cry-ap_shelltep_port,	1458 3
if (NULL == socket_tile)	1511 3	rbe_log_stats	1457 3
	1510 3	if (debugmode)	1455 2
socket_port = -1;	1508 3		1453 2
	1506 3	<pre>cxp-&gt;ap_shelitcp_port = (usaort_t)pwi-&gt;connection_bort) )</pre>	1451 4
<ul> <li>read file with name of WI (</li> <li>read file with name of WI (</li> </ul>		Print Comments	1450 4
/*	1504 3	pwi->connection_port, pwi->sysname.	1449 5
)	1501 4 1502 3	0, "using socket port %d to connect to"    host \"%s\", witem \"%s\",	
CNCTN_NETWARE == pwi->connection_type) ? 'Netware'	1500 4		1446 5
CNCTN_SOCKET == pwi->connection_type) ? "Socket"		if (debugmode)	1645 4
CMCTN_DIRECT == pw1->connection_type) : united:	1490	if (0 != pwi->connection_port) /* if port specified */	1443 3
CNCTN_EDMLINK == [w1->connection_cypes	1498 4	The state of the s	1402 3
The state of the s		MOI Cot to topopor ages	Mon Oct

DOD 05 04 150	14 con Cot 12 16:00:27 2008		
/* * We need to get a short name SSL alias if the destination	1656 6 1657 6	/* First test to see if this is a cross restore. If  * so we can't just use the STC group from the source  cleant	1507 4
COLUMNIA	1654 6	int addindex = $0$ ;	1504 4
strncpy( ssidroup, stdmames[oddIndex],CDL_STG_LENGTH-1);		/ for returned number of STO names	1603 4
pwi->ssl_groupname, stgNames(addIndex)))		char **stgNames; /* for the track of GMG names */	1602 4
while $(addIndex \ge 0)$ if $(0 == stront)$	1649 6	char sslName(CDL_HOST_LENGTH);	1600 4
<pre>/* Initialize the index */ addIndex = numGroups;</pre>	1647 6 1648 6	else /* ssl connect */	1598 3
sslGroup, stgNames[0], CDL_STG_LENGTH-1);		<pre>(void)swrite (remd_fd[0], cbuf, (int)strlen(cbuf));</pre>	1596 4
memset (sslGroup, 0, CDL_STG_LENGTH); strncpy(	1644 6	<pre>sprintf(cbuf, 'OK: %d socket connection made;</pre>	
* that as a default	1641 6 1642 6	* data stream */	1592 4
* find the same one we will use the first,	1640 6	* send OK status to client waiting on data socket hefore	
<ul> <li>to see if the same STG group exists.</li> <li>If we don't</li> </ul>	1639 6	tt ( pw1->ssl_groupname)	1588 3
'The destination client is SP enabled. First check	1637 6 1638 6	if (rcmd_fd[0] != -1)	1586 2 1587 3
{ { **********************************	1635 5	*	1584 2
	1634 5	determine if the user wants normal sockets * or sel.	
(word) swrite (rome_retu), cour, (incoerrent	1632 6	/* If we are connected,	1582 2
sprints(cbds, OK: %d socket connector meder, disease);	1631 6	vermed failt! = Avan(ream) fail()):	
*/	1629 6	* via socket connection. DO NOT overwrite filter_cmd fd's	1577 2
* data stream		* set up ONLY remote command file descriptors to talk to client	1575 2
* send OK status to client waiting on data	1627 6		
* Default to network and send normal	1625 6 1626 6	_exit(2);	1572 3
errstr, Undbre to use symmetry to record, socket_host);  tbg_user_error(0, errstr);		<pre>if (zemd_fd[0] &lt; 0) {     rhe log stats(0, "Socket Open error: %d\n", rcmd_fd[0]);</pre>	1569 2
	1623 6	rcmd_fd[0] = sopen(socket_host, 'c', socket_port);	568 2
char errStr[128];		of socket (STP) */	1566 2
if ((numGroups==0)    (rc < 0))	1620 5	/* We need to fix this up Modify sopen to call the right type	1565 2
/* Grab the	1618 2	rond_fd = rond_fds; /* set valid pointer */	
<pre>if (lebc_same_host(</pre>		rbe_log_stats( 0, *host= %s port=%d seg#=%d\n", socket_host, socket_port, dbssqno); )	1560 3
* IGIL DECK TO DETWOEK.	1613 4	if (debugmode)	1558 2
<ul> <li>if it is available.</li> <li>If no STG group is available we will</li> </ul>	1612 4		1555 3
get a good STG group for that. We'll	1611 4	socket_port = pwi->connection_port;	1553 4
* since it may not exist on the destination is SP enabled a	1609 4		
and the state of t		Mon Oct 13 16:00:37 2008 4_1011011101	

Mon Oct 13 1			1706 6 1707 6	1705 6				1698 5	1697 5	1695 5			1690 4		1687 7		1684 7		1682 6	1679 6	1677 6		1672 7			1668 7		1665 6		1662 6		1658 6	Mon Oct 13 16:00:37 2008
Mon Oct 13 16:00:37 2008 FSLauxmain.c 31 Page 97 of 134			return; /* "%s", */ holdbuff);	EDMREPROGMSG_AUXPROC_ERROR, 0,	WriteFmtStringMsg(cxp->ap_w_prog_fd,	dbeqno, holdbuff < 0)	socket_host,	Exemple 6411	if (ebsock_server_connect_ssi_groupname,	*/	* Just a normal Sp restorenouning special to	/*	else		return;	EDMREPROGMSG_AUXPROC_ERROR, 0, /* "%g",*/ holdbuff);	WriteFmtStringMsg(cxp->ap_w_prog_fd,		dbsegno, holdbuff) <	&rcmd_fd(1), socket_host,	** (GLECKY_GG *** - COMMON GENERAL SELVERAL Fd(0),	goto send_0; } //book comment est(selfrom.	pkt0_arrstr = "Gross-restore is configured to go through SP, yet destination host is not" properly configured in edm.conf";	rbe_user_error(ffdb_errnum, errStr); nkt0.fsilcode = 2;	mmPath hos	char errStr(128) ;	sslwerme, socket_host))}	t_host) L_getssi	if ((strlen)	strncpy( sslName, socket_host, CDL_HOST_LENGTH-1);	memset(sslName, 0, CDL_HOST_LENGTH);	* name happens to be long */	16:00:37 2008 z_rcmdfilter Page 97 of 134
Н	1770 3	1769 2	1766 2	1765 2	-	1763 2	1761 2		1757 3		1754 3	1751 2	1750 2		1746 2	1745 2	1742 2	1740 2			1734 1 1735 2	1732 1		1727 1 1728 2	1724 2		1721 2	1719 2 1720 2	1717 1	1716 1	1713 2 1714 2	1711 2	Mon Oct
Mon Oct 13 16:00:37 2008 RSLauxmain.c 32 Page 98 of 134		if (filter_cmd_fd_info == -1)	* the fd number as an argument per the rormat given to us */	romd process. Otherwise, approximity to is used, and we pass		* If no fd info passed to child.		rbe_log_stats(0, "\t%s\n", filter_cmd_argv(il);	for (i = 0; i < filter_cmd_argc; i++)	coe_tog_state( 0, *FILTER CMD: \"%s\", human_name: \"%s\"\n", filter and human name):	{	(	*/ (void dim2 (con-san r bulk fd. 0):	/* * Make our stdin be the bulk-from-parent stream.	/* child */	case 0:	pkt0.errnum = errno; break;	pkt0.failcode = 3;	(void) close(xcplogen_pipe(U)); (void) close(xcplogen_pipe(U));	case =1: /* error */	<pre>switch (xcpiogen_pid = pkt0.pid = fork()) (</pre>	Learning Marie	WriteFmtStrindMsg( cxp->sp_w_prog_fd, EDMREPROGNSG_AUXPROC_ERROR, 0,	if( 0 := pipe(xcpiogen_pipe)) {	) recurso;		WriteFmtStringMsg( GYN_Syn w nrog fd. EDNREDROGNSG AUXPROC_ERROR, 0,	's unknown connection method here	( eLSe		<pre>/* Now that we are finally connected, dup to scd err '/ rcmd_stderr = CDL_dup(rcmd_fd(0));</pre>		Mon Oct 13 16:00:37 2006 z_remdfilter Page 98 of 134

4 to 10:00:07 0000	Mon Oct 13 16:00:37 2008	Non Oct 13 16:00:37 2008 RSLauxmain.c 33 Page 99 of 134	Mon Or
"Warning: setsockopt for SO_KEEPALIVE fail	1890 3	/* Parent has no use for this file descriptor any more, and nuking it	1829 1
<pre>fbe_log_stats( RBRECOVER_MKERR(errno),</pre>	1888 1	} /* end of switch */	1827 1
sizeof(on))	1886 2	<pre>xcpiogen_prog_fd = xcpiogen_pape(U); break;</pre>	1825 2
SO_KEEPALIVE		(void)close(xcpiogen_pipe[1]);	1824 2
if (-1 == setsockopt( remd_stderr,		default:	1822 2
*/ int on = 1:	1880 2		
		break;	1817 2
/* Because of occasional loss of data, due to timing issues when * connected via edmlink.	1877 2	errno), "Can't exec \"85\", errno=%d\n", filter_cmd,errno);	
<pre>if ( (0 == strcmp(method, "rsh"))    (0 == strcmp(</pre>		<pre>(void)exacvp(filter_cmd, filter_cmd_argv); /* run xcpiogen */ xbe_log_stats(RBRECOVER_MKERR(</pre>	1814 2 1815 2
-	1874 1	<pre>(void)CDL_execvpErep(filter_cmd_fdout);</pre>	1812 2
rcmd_fd[0] = -1;	1871 4	<pre>/* Call the CDL layer so we can warn SSL that an execvp is coming. If this isn't an SSL socket this call is a no-op</pre>	
<pre>{   (void) CDL_close(xcmd_fd[0]); }</pre>	1867 5 1868 5	<pre>(void)dup2(xcpiogen_pipe[1], 2); (void)close(xcpiogen_pipe[1]);</pre>	1805 2
if ( 0 == CDL_isSSLsocket(rcmd_fd[0]) )	1866 4	(void)close(xcpiogen_pipe[0]);	
I pot a SM. socket, do the close if not two close if not one SP socket in XCPIOGEN after data has been moved by calling STPEXIL()	1860 4 1861 4 1862 4 1862 4	<pre>the_log_staf[BBEECVNER_MEERR (error);</pre>	1797 3 1798 3 1799 3 1800 3 1801 3
if (rend_fd[0] != -1)	1858 3	<pre>filter_cmd_fdout, "\n", 1, write_CUL_no_eintr)) := 1) {</pre>	1796 3
if (rcmd_stderr != rcmd_fd[0])	1856 2	if ((n = looprw(	1795 2
else	1854 1	_exit(2);	
case because rcmd_stderr will not be equal to rcmd_ra(v)	1852 1	filter_cmd_fdout);	1791 3
/ However in the case of nursmd we did get a network socket for rome_stderr so we do need to issue one socket. We can detect that	1849 1 1850 1 1851 1	rbe_log_stats(RBARCOVER_MKERE; withe %d bytes to host \"%s\", " "ec=%d, ezrno=%d, fd=%d\n", i.remd_stuff(0), n, ezrno,	
<pre>(void)close(rcmd_fd[1]); )</pre>		filter_cmd_fdout, human_name, 1, write_CDL_no_eintr)) != i)	1788 3
if (rcmd_fd(1) != -1)		i = (int)Strlen(humen_neme);	1786 2
(void)close(rcmd_fd[0]);	1842 3	* Send Feel Uld Scring on Lilber_Gunz_court to talent passents	1783 2 1784 2
if (remd_fd[0] := -1)	1840 2	A STATE AND STATE OF THE PROPERTY OF THE PROPE	1782 2
if (!pwi->ssl_groupname)	1818 1	)	1780 2
avoid the closes in that case	1836 1	<pre>fdarg, filter_cmd_argv[tilter_cmd_td_info],     filter_cmd_fdout);     filter_cmd_fd info] = fdarg;</pre>	
" Che data! "/	1833	filter_cmd_fdout = rcmd_fd[0]; (void) sprintf(	1776 3 1777 3
total grand and annual and annual and annual and annual and annual and annual a	1036	@18@	1774 2
	1831 1	<pre>(void)dup2(xcmd_fd[0], 1);</pre>	1772 3
* now is important so that if the child dies while the road still	1830 1	filter and fdout = 1:	WOII ON
13 163	Mon Oo	Mon Oct 13 16:00:37 2008 z_rcmdfilter Page 99 of 134	13 16

00:37 2008 RSLauxmain.c 36 Page 102 of 134	Mon Oct 13 16:00:37 2008	Mon Oct 13 16:00:37 2008 RSLauxmain.c 35 Page 101 of 134	Mon Oc
		uxChildren(cxp->ap_w_prog_fd,	1952 2
********* HACK **** HACK **** HACK **** HACK	2010 3	int remote_exitinto;	1950 2
*********** HACK **** HACK **** HACK	2009 3	(INCD ACDIOGENICOCTIFICATION)	1948 1
HACK **** HACK **** HACK **** HACK	2008 3	<pre>if ((xcplogen_pid &gt; 0) &amp;&amp;</pre>	1947 1
**************************************	2007 3	saarfürusam st Arfüz .z.	1946 1
**************************************		in the second se	
**	2004 3	and send it to parent in an 'R' reply. If the fork was * unsuccesful, there is no 'R' reply, and, furthermore,	1943 1
( /*** IT'S NETWARE ***/		* on stderr,	1942 1
else		/* If the fork was successful, wait for the remote exit status to come back	1941 1
* waitpid is NOT -1, or the errno is NOT EINTR */	1999 3	Production of the control of the con	1939 1
<pre>/*  * exited while loop either because the return value of</pre>	1997 3	sprint(cxp-app_error_message, as pwo_error_medlen exit):	
) compay makes accept to	1995 3	if (pkt0.msglen > 0)	1934 1 1935 2
(* compre while loop */			
while ((weitpid(xcpiogen_pid, &wait_result, 0) == -1) && (EINTR == errno))	1991 3	<pre>pwrite_or_dis(cxp-&gt;ap_w_fd, &amp;o, 1, _exit); pwrite_or_dis(cxp-&gt;ap_w_fd, (char *)&amp;i, sizeof i, _exit); pwrite_or_dis(cxp-&gt;ap_w_fd, (char *)&amp;pkt0, sizeof pkt0, _exit);</pre>	1930 1
*/ */ WIET THE WALL: (FIX IOT COCKWIDSO//	1988 3	<pre>c = '0'; i = (int)sizeof(pkt0) + pkt0.msglen;</pre>	1928 1
* waitpid() may return with EINTR before the child * proc exits, in that case, we want to continue	1986 3	grow and grown - Assert a second of the second	1926 1
*	1985 3	nk+0 merion = (int)strian(bkt0 errstr) + 1;	1924 2
( /*** YES ***)  /* Now wait for the exit code of the filter ( local) process	1983 3	send_0: if (pkt0.msglen < 0)	1922 1 1923 1
if (0 i= stromp(method, "netware"))	1982 2	*/	1920 1
77	1980 2	* Send the setup failure/success packet.	1919 1
<pre>/* * Is our connection method anything BUT "netware"?</pre>	o o		1917 1
TOWN CO BOTTLETTE CT	1976 2 1977 2 #endif	r_resultdata = ChildExitStatus;	1915 3
rbe_log_stats(0, "Auxproc(%d) remote exit is %d.", getpid(),	2	<pre>xcpiogen_still_running = FALSE;</pre>	1913 3
CDdf ") Rfellock_extritio, i, _extri	1974 2 #if 0	else if (0 != ChildDone_ret)	1912 2
pwrite_or_dis(cxp->ap_w_fd, (char *)&i, sizeof i, _exit); pwrite_or_dis(cxp->ap_w_fd, (	1972 2	'internal error: Lesting to see it Arbityen	1910 3
i = sizeof(remote_exitinfo);	1970 2	rbe_log_stats(RBRECOVER_MKERR(errno),	1908 3
G = 'R';		<pre>childbone_ret = Childbone(xcplogen_pld, &amp;ChildExitStatus); if(-1 == Childbone_ret)</pre>	1906 2 1907 2
* notify the main program of remote success/failure	1965 2 1966 2	<pre>xgpiogen_still_running = TRUE; sleep (1);</pre>	1904 2
		r_resultdata = 0; /* "meaningless" */	1902 2
/* error_logging */	1962 2	int ChildExitStatus;	1900 2
	1	int ChildDone_ret;	1898 2
/* zhe log stats/		" The child could have exited prior to the fork.	1897 2
if(0 != Demux_ret)	1958 2	/* Lets check here to see if xcpiogen is still running.	1895 2
xcpiogen_pid, &remote_exitinfo);	1956 2	if(0 == pkt0.failcode)	1894 1
rcmd_stuff(0), xcpiogen_prog_fd,	1956 2		1891 2 1892 1
rond_stderr,	mon Oct 10 1000	Mon Oct 13 16:00:37 2008 z_romoniter rage 101 01 134	Mon Oc
0:37 2008 z rcmdfilter Page 102 of 134	Mon Oct 13 16:00:37 2008	som dilan	

3:00:37 2008 HSLauxmain.c 38 Page 104 of 134	Mon Oct 13 16:00:37 2008	RSLauxmain.c 37 Page 103 of 134	Mon Oct 13 16:00:37 2008
	2115 2	int exitinfo;	2055 4
weit_result = WEXITSTATUS(wait_result);	2114 3	** We recieved an error exit status from woveri	2053 4
*/	2112 3	/**	2052 4
* set the result to the exit code	2111 3		2051 4
· /*	2110 3	if (remote exitinfo)	-
wait_result)) /* child proc exited normally */		*/	2048 3
if (WIPEXITED)	7		
*/	2106 2	* the reason for having to do the kill(	2046 3
<ul> <li>status of the chita process and set the recurr value</li> <li>to indicate the status accurately.</li> </ul>		<ul> <li>there is activity occuring like positioning the tape.</li> </ul>	2045 3
process. Use the standard macros to determine the	2103 2	SIGPIPE) is ignored by the process while	
* wait_result contains the exit status of the child	2102 2	* Appearently, the kill(	2043 3
/*	,	* then see if it went away until it DOES go away.	2042 3
*/	2099 2	sleeping for 2 seconds, and	
* main command loop in caller will send this result for us	2098 2	* Just keep on trying to kill it,	2040 3
/*	2097 2	* it DOES go away.	2039 3
	2095 2	and then see if it went away until	
	2094 3	* it, sleeping for 2 seconds,	2038 3
*/ waiching wor -r, or one earno in wor minute	2092 4	* handled in a controlled manner.	2037 3
of		software and	2020 3
* exited while loop either because the return value	2091 4	* STOPIPE because this is usually trapped by our	1 200
		* Therefore,	2035 3
/* empty while loop */	2089 5	* process is hung and can't wind down.	
(ELNIK == GIIIO))		we have to assume that the	
xcpiogen_pid, &wait_regult, 0) == -1) &&		' in between. If we don't get it,	2032 3
	2085 4	* then try to get it's "wait_result" twice with a 2	2031 3
*	2083 4	client	
with the wai	2082 4	* After we have received the exit info from the Netwere	2029 3
* proc exits, in that case, we want to continue	2080 4	* failure) reports failure	2028 3
/*	2079 4	" II the exiting ( which is zero for success or non-zero for	
	V (107	*	
** We received a success recurs acade from sovers	2076 4	* mechanisms seem to work with Netware.	2025 3
/xx	2075 4	* not think of a better way).  None of the normal TCP/IP	2024 3
G1 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2073 3	kind of a hack but could	
	2072 3	* This is how we will get around this (	2022 3
	2071 4	* buffer(s) become(s) tull.	
/* HLMS: II: "/		the process might hang indefinitely if the network	2020
		* in However.	
in ('exictinto')	2067 5	* been written to the socket even though no process is	2019 3
		"Therefore, "his "auxoror" doesn't finish until all data has	2018 3
exitinfo = waitpid(	2065 5	Service Control of the Control of th	2013 3
sleep(2):		* envhody there to read it.	-
**		<ul> <li>just keeps on sending data across the network and there isn't</li> </ul>	2015 3
* Wait a couple of seconds longer and try again	2061 5	* that is running as pid paco.pid.	2014 3
\( \tau \)			
while (!exitinfo)		* does not send anything back to the (	1
exitinfo = waitpid( xcpiogen_pid, &wait_result, WNOHANG);	2057 4	* This hack is basically for Netware.	2011 3 2012 3
A_Danamay	MOLLOCLIO 10:00:07 2000	z_remofilter Page 103 or 134	Mon Oct 13 16:00:37 2008
-00-37 2008 Z rcmdfilter Page 104 01 134	Man Opt 13 16		

Oct 19 18:00:00	Mon Oct	Mon Oct 13 16:00:37 2008 z_rcmd/filter Page 105 of 134	Mon Oct	Mon Oct 13 16:00:37 2008	decodecookie
conduction of the processing data to continuous to signal, so  including processing the color of	2117 3	( ) *		static enum input_states	decodecookie(char *cp);
		* child proc exited due to an uncaught signal, so			
Sale if   DEFENDENCI (wait_remail)   WELLEVELLE   WELLE	2120 3	* set the exit code to the signer number plus our own code XG_EXIT_SIGBASE.		struct cookie2state (	
alse if introcreenint)  (**Child proc is scopped, set the exit code accordingly.**  (**Child proc is scoped, set the exit code accordingly.**  (**Child proc is scoped, set the exit code accordingly.**  (**Child proc is scoped, set the exit code accordingly.**  (**Child proc is scoped, set the exit code accordingly.**  (**Child proc is scoped, set the exit code accordingly.**  (**Child proc is scoped, set the exit code accordingly.**  (**Child proc is scoped, set the exit code accordingly.**  (**Child proc is scoped, set the exit code accordingly.**  (**Child proc is scoped, set the exit code accordingly.**  (**Child proc is scoped, set the exit code accordingly.**  (**Child proc is scoped, set the exit code accordingly.**  (**Child proc is scoped, set the exit code accordingly.**  (**Child proc is scoped, set the exit code accordingly			340		es state;
alse if (offSponepsDivalt_remails)    Alse if (offSponepsDivalt_remails)					-2010
child proc is scopped, set the exit code accordingly.    California		else if (WIFSTOPPED(wait_result))	jus yes	static struct cookie/stall	-
* child bric is Scopped, set the ELL CORD SCORD SCORD SCORD STORY CORD STATUS, CREET CORRESPONTS. INSTATE, SEMBLING STATUS, STATUS, SALES STATUS, STATUS, SALES SALES STATUS, SALES STATUS, SALES STATUS, SALES STATUS, SALES STAT		· · · · · · · · · · · · · · · · · · ·	2188 1	( REMFD_COOKIE_I	
wait_resultdata = wait_result;    Tresultdata = wait_result;   Compadator = 1   1   11   11   11   11   11   11	2129 J 2130 J	child proc is stopped, set the exit code accordingly. */		( REMFD_COOKIE_	ND, INST
Comparison = wait_result;	2132 3	<pre>wait_result = XG_EXIT_STOPPED;</pre>	ы (		
Executates = weit_result;					
If (rend_stderr = -1)	2135 2 2136 1			static enum input_states decodecookie(char *cp)	
Color of the SSL (SFP) and harder   SPECION   Debardoral defect   SSL (SFP) and harder   SSL (SSL (SFP) and harder   SSL (SSL (SSL (SSL (SSL (SSL (SSL (SS	2138 1	if (rcmd_stderr != -1)		( error cookie2etara .	*n3s:
Shir off the SSL GTF) with hadder  A college SSL goodes in NCFFCGSM sfrow  (rotalicles (conductor)  E ( 0 = COLLESSL goodes (conductor)  I conductor with sort conductor with  A college SS scutt //  Conductor with sort college in NCFFCGSM scutt  A college SS scutt //  A college SS scutt //  A college SSL goodes was set to adder; of remote  (***SBL goodes was set to adder; of remote  (***S		(+ OSGsw34952 Workeround for STFclose() behavioral defect			
There is Sil socket, do the close if not  'Ne close SP socket in XCTICGNA sider:  'Acta has been moved by calling SPeacit()  If (0 == CDL_s8SLeochet(cond_stderr);  condictoss(cond_stderr);  condictoss		* Chit off the COI (CTD) by't handler	2201 1	for $(c2s = c2stb1; c)$	2s->cookie != NULL; c2s+
data been moved by calling STRewitt()  ( oder CL_restStandbettrend_stderr)		* IF not a SSI socket, do the close if not		if (stromp(c2s-	>cookie, cp) == 0)
Et ( 0 = CDL_18SSLeochot(rend_stdert)   2301   23		data has been moved by calling STPexit()		( return c2s-	vstate:
(void:clear(cond.cdowr);  rond.actour = 1,  elso / SEL socket used as sider, so clean up  los 9 secte value of to sider of remote  /* SP socket was not be sider of remote  /* SP socket was not created that SP socket we will  spicified year of the SP socket was little processed to within any created the spicified process.  if ( 0 == sp.cdlexitdne = 1;  pp.cdlexitdne = 1;  spp.cdlexitdne = 1;  pp.cdlexitdne = 1;  /* set up variables that main loop will use to send 'z' reply  cap-sp.resultin = sizeof f.resultdata;  cap-sp.resultin = sizeof f.resultdata;  cap-sp. resultin = sizeof f.resultdata;  cap-sp. resu		<pre>if ( 0 == CDL_isSSLsocket(remd_stderr) )</pre>	2206 2	-	
called   Stitute   called		(void)close(rcmd_stderr);	100	retur	H_PREFIXO; ecookis() */
All of SEL anomat used as accure, so Clean up		FCHACOCCORF = TAX			
/ SP scale was set to scarr of remote  / SP scale was not connected;  when we created the SP scale to we will  when the created the SP scale to will  clean up the entire SP environment '/  if (0 == Sp_cdlexit() in  CDL_exit() in the will  CDL_exit() in the will  CDL_exit() in the will  case up variables that main loop will use to send 'z' reply  // set up variables that main loop will use to send 'z' reply  // set up variables that main loop will use to send 'z' reply  // end of t_remititler() '/  Man out 3 160037 2008 RSLauvment 2 9 Page 105 of 194 Man out 3 160037 2008 RSLauvment 40	2152 2 2153 2	else /* SSL socket used as stderr, so clean up the SP stuff */			
Commands   Size   We call Clubscore	2154 3 2155 3	SP socket			
explicitely call CDL_exit() that will clean up the entite SP environment */  if (0 == Sp_cdlexitdone)  (CDL_exit(); SD_cdlexitdone = 1; SD_cdlexit		commands. Since, we call CUL_noacexic			
if ( 0 = sp_cdlexitdone)  CDL_exit[);  sp_cdlexitdone = 1;  sp_cdlexitdone = 1;  sp_cdlexitdone = 1;  sp_cdlexitdone = 1;  cop_ap_resultion = sizeof r_resultdata;  cop_ap_resultdata = (bn r_resultdata r_resul	2158 3	explicitely call CDL_exte() that will clean up the entire SP environment */			
Constitii   Cons	2161 3	if ( 0 == sp_cdlexitdone )			
sp_cdlewiddne = 1;  }  /* spt up variables that main loop will use to send 'r' reply  cqu >ap_resultine = sixor t r_resultdata;  cqu >ap_resultdata = (char 'Nr_resultdata;  cqu >ap_resultdata = (cha	2162 4	CDL_exit();			
1 / set up variables that main loop will use to send 'r' reply 1 cm - an resultiam = size of F. resultedat; 2 cm - by red of s. rediffice() 'r', resultedat; 3 cm - by red of s. rediffice() 'r', resultedat; 4 cm - by red of s. rediffice() 'r', resultedata; 5 cm - by red of s. rediffice() 'r', resultedata; 6 cm - by red of s. rediffice() 'r', resultedata; 6 cm - by red of s. rediffice() 'r', resultedata; 7 cm - by red of s. rediffice() 'r', resultedata; 6 cm - by red of s. rediffice() 'r', resultedata; 7 cm - by red of s. rediffice() 'r', resultedata; 7 cm - by red of s. rediffice() 'r', resultedata; 8 cm - by red of s. rediffice() 'r', resultedata; 9 cm - by red of s. rediffice() 'r', resultedata; 1 cm - by red of s. rediffice() 'r', resultedata; 1 cm - by red of s. rediffice() 'r', resultedata; 1 cm - by red of s. rediffice() 'r', resultedata; 2 cm - by red of s. rediffice() 'r', resultedata; 2 cm - by red of s. rediffice() 'r', resultedata; 3 cm - by red of s. rediffice() 'r', resultedata; 4 cm - by red of s. rediffice() 'r', resultedata; 4 cm - by red of s. rediffice() 'r', resultedata; 4 cm - by red of s. rediffice() 'r', resultedata; 5 cm - by red of s. rediffice() 'r', resultedata; 6 cm - by red of s. rediffice() 'r', resultedata; 6 cm - by red of s. rediffice() 'r', resultedata; 7 cm - by red of s. rediffice() 'r', resultedata; 8 cm - by red of s.	2164 4	sp_cdlexitdone = 1;			
/* set up variables that main loop will use to send 'r' reply  con-sq_resultion = stack f_resultdata;  con-sq_resultdata;  con	2166 2 2167 1				
COD-SQL_resultion = sizeof r_resultdata;   CODAT   Nor. resultdata;   COD	2169 1 2170 1	/* * set up variables that main loop will use to send 'r' reply */			
1 CO2 -94CBEILLER = 11400 E_LEBILCOROL; 1 CO2 -94CBEILLER = 11400 E_LEBILCOROL; 2 CO2 -94CBEILLER = 11400 E_					
RSLauvmein c 39 Page 105 of 134 Mon Oct 13 16:00:57 2039 RSLauvmein c 40	pa pa				
RSLauxmain.c 39 Page 105 of 134 Mon Oct 13 16:00:37 2008 RSLauxmain.c 40					
	Mon Oct	RSLauxmain.c 39	Mon Oct	13 16:00:37 2008	RSLauxmain.c 40

04 10 10 10 10 10 10 10 10 10 10 10 10 10				2224 1 ++@ttr 2225 ) +	2220 2 { (voi	-	2214 1 1f (de 2215 2 { 2216 2 rbe_ 2217 1 }		Mon Oct 13 16:00:37 2008
				++&ttn_ec; /* end of sigusr1_handler() */	<pre>(void)kill(xcpiogen_pid, SIGTERM);</pre>	if (0 < xcpiogen_pid)	<pre>if (debugmode) {     rbe_log_stats(0, \nUSR1 (ATTN) signal received(\n'); }</pre>	static void pigusrl_handler(Int sigvalue)	2008 sigusr1_handler
207 24 404							);		rage 107 of 134
	2253	2250 1 2251 1	2244 1 2245 2 2246 2 2247 2 2248 1	2240 I 2241 I 2242 I	22]7 1 22]8 1 22]9 1	2235 1	2230 1 2231 2 2232 2 2233 1	-	WOI CO
	} /* end of sigattn_handler() */	signal(SIGTERM, (void)kill(getpi	<pre>if (1==is_symmpath) {    CDL_exit();    sp_cdlexitdone = 1; }</pre>	CDL_noatexit,	/* ESS workeroun if symmpath w not already b	rbs_close_logs(logging_channel);	<pre>if (debugmode) {     rbe_log_stats( }</pre>	static void sigterm_handler(int sigvalue) (	MOI OU IO IOSOCO ECOO
DCI arrymain C 42	handler() */	<pre>signal(SIGTERM, SIG_DFL); /* restore default (terminate) action */ (void)kill(getpid(), SIGTERM);</pre>	<pre>if ( (l==is_symmpath) &amp;&amp; (0==sp_cdlexitdone) }</pre>	UD SUCKELS SAME WE HAVE to make sure we CDE_noatexit, we have to make sure we clean up */	<pre>/* ESS workaround: Make a call to CDL_exit if symmpath workitem and CDL_exit has not already been called. This is to clean</pre>	.ogging_channel);	: (debugmode)  rbe_log_stats(0,*\nTERM signal received:\n*);	sigvalue)	
Dans 108 of 134		cminate) action '							

Mon O	2300	2296 1 2297 1 2298 1	2282 1 2284 1 2284 1 2285 1 2286 1 2286 1 2286 1 2289 1 2299 1 2299 1 2299 1 2299 1 2299 1	2280 1	2274 1 2275 1 2276 1 2277 1 2277 1	2267 1 2268 1 2269 1 2270 1 2271 1 2272 1	2261 2263 2264 2265	2256 2257 2258 2258 2259	Mon Oc
Mon Oct 13 16:00:37 2008 RSLauxmain.c 43	} /' end of z_exec_separate_auxproc() */	* If we get here, the exec did not go. Caller will bomb for us.	(road) sprints (procuma, str., "dd., opp-spp_mg_awnum); (road) sprints (cadatt, "dd., opp-spp_mg_awnum); (road) sprints (w.fd.str., "dd., opp-spp_mg_aw.fd); (road) sprints (dagmodatt, "dd., opp-spp_mg_aw.fd); (road) sprints (dagmodatt, "dd., dabsspods); fc secence */ (road) sering (sprintses); (road) sering (sprintse	argv0 = "ebr_auxproc";	/# MOTE: This name is "special"; the recover main() * function looks do: it to know when it's being invoked * to partorm anaproc processing: */	char procumu_str(32);  char r_d_str(31);  char v_d_str(31);  char v_std_str(32);  char c_baik_{d_str(32)};  char dagmodestr(33);  char dagmodestr(33);	*/ static void static voidexec_separate_auxproc(struct auxproc_context *cxp,exec_separate_auxproc(struct auxproc_context *cxp,char *pathmame)	. Imposed when running recover in debugging mode, a supproc, so that this energy a separate a soit file to implement the supproc, so that breakpoints can be set in the recover code without affecting the supproc code.	Mon Oct 13 16:00:37 2008 z_exec_separate_auxproc F
Page 109 of 134		mb for us.	* ***		ă.			c, so that	Page 109 of 134
Mon Oc			- 100		2321 1 2322	2315 1 2316 2 2317 2 2310 2 2319 1	2309 2310 2311 2312 1 2313 1		Mon Oct
Mon Oct 13 16:00:37 2008 HSLauxmain.c 44					renum r; /* and of read_COL_no_sintr() */	<pre>do  {     rerno = 0;     re = CDL_read(fd. buf. (uint_t)nbytes.0);     relout.ead(fd. buf. (uint_t)nbytes.0); } ) while (r == -1 &amp;&amp; errno == ENMR);</pre>	<pre>read_CDE_no_einer(inf, read_CDE_no_einer(inf,</pre>	/ Use these functions with looptw to build " a loop read (or loop write) that ignores EINTR. " a loop read (or loop write) that ignores EINTR.	Mon Oct 13 16:00:37 2008 read_CDL_no_eintr
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Mon O		2337 1	2334 2	2331 1	2328 1	2324 2325 2326 2327	Mon Oc
Mon Oct 13 16:00:37 2008		-			int r)		Mon Oct 13 16:00:37 2008
RSLauxmain.c 45		return r; /* end of write_CDL_no_eintr() */	<pre>r = CDL_write(fd, buf, (uint_t)nbytes,0); } while (r == -1 &amp;&amp; errno == EINTR);</pre>			: fd, ouf, rtes)	write_CDL_no_eintr
Page 111 of 134							Page 111 of 134
Mon O	2336 1 2337 1 2337 2 2309 1 2309 2 2309 2 2000 2 20	2352 1 2353 1	2350	2346 2347 2348	2344	2342	Mon Oc
Mon Oct 13 16:00:37 2008 RSLauxmain.c 46 Page 112 of 134	R_FD_ERG(&rchbis); R_FD_ERG(&rchbis);  **Dort mod to examine rchbics after select, since on '. Dort mod to examine rchics after select, since on '. Id is in the set Eksewione return value can be c '. (Id selectly from select return value.)  [**If (sel_relectl_R_D_SRTSIZE, archits, NULL, NULL, NULL, Forturn O; end of fd_evail_l_wait_litt() '/  **Return O; end of fd_evail_l_wait_litt() '/		int int fd_avail_l_wait_intr(int fd)	Returns -1 for any type of tailure, including wait investigation. Sets earno appropriate when -1 is returned.  "/	* Returns 0 if at least one byte is available.	/* Mair, interruptibly, for at least one byte to become available on fd.	Mon Oct 13 16:00:37 2008 Id_avail_1_wait_init Page 112 of 134

Mon	2407	2404	2402	2400	2398	2396	2394	2389 2390 2391	2386	2383	2380	2378	2376	2374	2372	Mon
Mon Oct 13 16:00:37 2008	) /* end of	r -	/* ERROR encountered */ return -1:	if ({retStatus :	*	pr pr 3	- 1-	1 fd_test.fd = fd; 1 fd_test.events = POLLIN; 1 fd_test.revents = 0;	int retStatus; struct pollid fd_test;	fd_avail_test_intr(int fd)	7 .	* Sets errno appro	* Returns -I for a	* Returns 1 if at	/* Test, interruptibly,	Mon Oct 13 16:00:37 2008
RSLauxmain.c 47	/* end of fd_avail_test_intr() */		intered */	<pre>if ((retStatus = CDL_poll_read(&amp;fd_test, 1, 0)) == -1) {</pre>		* fd is in the set therefore return value can be computed * directly from select return value.	examine rdbits after select, since on	= POLLIN; = 0;	_test;	int fd)		Sets errno appropriate when -1 is returned.	Returns -1 for any type of failure, including test interruption. Return 0 if no data is available.	least one byte is available.	bly, for at least one byte to become available on fd	fd_avail_test_intr
Page 113 of 134						omputed	ly one									Page 113 of 134
Mon Oc			2440 1 2441		2436 1	2435 1	2432 1	2429 1 2430 1 2431 1	2424 I 2425 I 2426 I		2419	2417	2414	2413	2410	Mon Oc
Mon Oct 13 16:00:37 2008			return retStatus;	,	(BINIX == SILIO)	while ((-1 == (retStatus	"/ " alfectly from serect	/* * Don't need to examine  * for is in the set t	<pre>fd_test.fd = fd; fd_test.events = POLLIN; fd_test.revents = 0;</pre>	int retStatus; struct pollfd fd_test;	int fd_avail_test1(int fd)	*/	* Return 0 If no data is avaitable.	* Returns 1 if at least one byte is available. * Returns -1 for any type of failure other tha	* Test, for at least one by	Mon Oct 13 16:00:37 2008
RSLauxmain.c 48						while ((-1 == (retStatus = CDL_poll_read(&fd_test, 1,	pacury sarue.	/*  * Don't need to examine rdbits after select, since only one  * d is in the set therefore return value can be computed					Mailable.	* Returns 1 if at least one byte is available.  * Returns -1 for any type of failure other than EINTR.	* Test, for at least one byte to become available on fd.	fd_avail_test1
Page 114 of 134						. 0))) &&		only one computed							:*	Page 114 of 134

Mon Oct 13 16:00:37 2008 RSLauxmain.c 50 Page 116 of 134	Mon Or	15 15 15 15 15 15 15 15 15 15 15 15 15 1	Man Oat 10
because this pr		istat = sigaction(SiGCHLD, wnew_acc, wold_acc))	
oot user. This process will not be a	2549 2	new_act.sa_flags = E_SA_RESTART;	2500 1
* the exec of the shell script if the user executing [x]ebrecover is	2548 2		
170		*/	
	2546 2		2495 1
* implementation does maintain the effective UID of the process.	2545 2	. `	
* 18 Changed back to the leaf oil of the browners womener,	2544 2	r = z[0]; /* pipe fo	2491 1
processes community an execute a sure of the early of the	2543 2	<pre>fd_w = x[1]; /* pipe for child's stdin */ fd_r = y[0]; /* pipe for child's stdout */</pre>	
effective UID		FECULI NOME	2488
	2541 2	watern MILL.	2486 2
* problem 1.	2540 2	WriteFmtStringMsg(	
* function will fail. This causes the recovery to fail. Thus	2539 2	If ((-1 == pipe(x))    (-1 pipe(y))    (-1 pipe(x))	2483 1
* of the process. So if the user is not root or examin, the access	2538 2		1000
* The first problem is the access:  ) function call uses the real UID	2537 2		2480 1
	2536 2		2478 1
the setuid bit se			
* [x]ebrecover and an effective UID of root (	2534 2	int istat;	2475
* At this moment the process has a real UID of the user executing	2533 2	struct sigaction new_act;	2473
/*			2472
I do a series a serie	2530 2	cha	2470 1
			2469
close pipe ends for forked	2528 3	int fd x:	2467
WriteFmtStringMsg(	2527 3	int z[2];	2466
	2020	int x[2];	2464
(close(X[1])<0)    (close(Y[1])<0)    (close(X[1])	2524 2	int pid:	2463
if ((close(x[0])<0)    (close(y[0])<0)    (close(z[0])<0)	2523 2	int "fd2p)	2461
_exit(-1);	2521 3	ĸ	2460
	0.00	char *Iocuser,	2458
cxp->ap_w_prog_td, EDMREPROGNSG_AUXFROC_BANON, o.		uxproc_cor	2457
THE PERSON NAMED OF THE PERSON	2519 3	ebr_direct_remd(char **anost,	2455
if ((dup(x[0])<0)    (dup(y[1])<0)    (dup(z[1])<0))	2517 2		2454
exic(-1);	2515 3	*/	2452
		Should only be called when client == server.	2451
"unable to close std(	2513 3		
WriteFmtStringMsg(cxp->ap_W_prog_fd,			3450
if ((close(0)<0)    (close(1)<0)    (close(2)<0))	2510 2	2772	2449
*/	2508 2	1	2449
* first, setup stdio to work using the pipes		7	
* child processing goes here while parent is stopped (	2506 2	rend	ž
if ((pid = EBR_FORK()) == 0) {		ORK fork /* pc	2443
		1001 001 10 101010	IVIUTA V

Mon Oct 13 16:00:37 2008 HSLauxmain.c 52 Fage 116 of 134	Mon Oct	Mon Oct 13 16:00:37 2008 RSLauxmain.c 51 Page 117 of 134	Mon Oc
Del automain a 60	T 9007		
*fd2p = fd_err;	2663 2	* entry for the client backup username and it had a basework  * entry for the client backup username and it had a base	2604 2
		* Yea. I know.	2603 2
ebr_direct_remd_fds[0] = fd_w;	2659 1 2660 1	* is really there.	
* now fill in fd's to be returned */	2656 1 2657 1	/*  * Make sure that the home directory that we finally ended	2599 2 2600 2
\*		"	2597 2
return NULL;	2652 2 2653 1	<pre>/*     client_home now points to the home dir of the client</pre>	2595 2 2596 2
sigaction(SIGCHLD, &old_act, NULL);		•	
= 0) /* pipe for child's stater	2647 2 2648 2	<pre>client_home = "/usr/epoch/EB/CLIENT_HOME"; }</pre>	2591 4 2592 3
close(x[1]); /* pipe for child's stdin */ close(y[0]); /* pipe for child's stdout */	2645 2 2646 2	client home == NULL) ? "??" : client_home, remuser);	2590 4
	2643 2	"%s; "for mear \"%s; "defaulting to /usr/cpoch/EB\n",	2588 4 2589 4
writeFmtStringMsg( cxn->n w nrog fd, EDMREPROGMSG AUXPROC_ERROR, 0,	2642 2		
if (-1 == pid)		p = "Can't figure out home dir";	۸.
	2638 1	else	
* check for fork() failure	2637 1	-	2581 4
/*		goto default_home;	2580 5
close(y(1)); /* pipe for child's stderr */	2634 1	a "Can't chdir to home":	
/* pipe		<pre>if (0 := chdir(client_home)) /* cd to directory */</pre>	
. CIOSE THE BOTHLE DICATED OF THE CHIEF COMME CO.	2629 1	<pre>if ({    client_home = pw-&gt;pw_dir) != NULL) /* if there is a pointer */</pre>	2575 3
/*	2628 1	61se {	
*/		gove measure all comme	2572 2
/* * parent code resumes here	2624 1 2625 1	<pre>{    p = "Can't get home directory";    coro default home;</pre>	2569 3
_exit(127);	2621 2	if (NULL == (pw = getpwnam( remuser))) /* lookup client home dir */	2568 2
(void) seconi('/bhin/sh', "sh', "-c", cmd, 0); WriteFiniStringMeg  cmp->ep_w_prog_fd, EmmReBnOcMsG_AUXEROC_ERROR, 0, cmp->ep_w_prog_fd, EmmReBnOcMsG_AUXEROC_ERROR, 0,		$^{\prime}$ , now chdir to the client code home location $^{\prime}$ /	2564 2 2565 2 2566 2
		(void) setuid(getewid());	2552 2
_exit(-1);	2614 3	*/	2560 2
"Server backup directory \"as\" not round or not searchable\n",	2613 3	of the first things in recopio.	
WriteFmtStringMsg( cxp->ap_w_prog_fd, EDMREPROGMSG_AUXEROC_ERROR, 0,		* at this point. It will be changed back to the actual user as one	2557 2
<pre>if (0 != chdir(client_home)) (</pre>	2610 2 2611 3	* UID of that user so it will do no harm to set the real UID to root	2556 2
`.	2608 2	* process from the standard input and setting the real UID to	2555 2
I did not really feel like trying to fix up the spagetti  * code. I'm feeling a little lazy today		* The recxcpio process will be reading the username of the	2554 2
и :	2606 2	* and effective UID (which are now the same) does not have * permissions to the directory ~ebadmin.	2551 2 2552 2
Howavar.	3606 7	Mon Oct 13 16:00:37 2008 60dreqcritic	Mon Oct
Mon Oct 13 16:00:37 2008 ebr. direct_rcmd Page 118 of 134	Mon Oct	obs dispet sound	

DOS RSLauxmain.c 54 Page 120 of 134	Mon Oct 13 16:00:37 2008	Page 119 of 134	RSLauxmain.c 53	Man Oct 13 16:00:37 2008
<pre>(void)the_user_error(     fid_errum, 'Unable to open file \'%a\' for scaming',     ffd_umlor_error(     ffd_umlor_error); return NULL;</pre>	+ 2 2 2 2 2			
((file_ptr = ffdb_open_file(ffdb_inclient_path)) == NULE)	j.			
(void)rbe_user_error( ffdb_errnum, "Usable to obtain lock on \"%s\" for scanning", ffdb_inclient_path); return NULL;	122 2			
<pre>if ((lock_ptr = ffdb_lock_file(ffdb_inclient_path,</pre>	2716 1 if ((loc 2717 1 2718 1			1
** request was not in cache go load it */	2712 1 /* 2713 1 * reque 2714 1 */			
if (Efdb_inclient_init(FFDB_INTT_DEFAULT_PACH) i= 0) {     return NULL; }	2705 2 { 1.£ 2706 2 { 1.£ 2707 3 { 2708 3 2709 2 }			
if (ffdb_inclient_path == NULL) /* if file name needs to be prepared */	2704 1 if (ffdb	-		
get pathname to file	2700 1 /* 2701 1 * get p 2702 1 */			
return NULL;  #endif /* PARAM_CHECK */	2696 2 retu 2697 1 } 2698 1 #endif /* PA	N.N.N.		
<pre>nhawLCHECK (NULL == host) rbe_internal_error(RERECOVER_MRERR( rbe_internal_error(RERECOVER_MRERR( rnull_arg, 'host name');</pre>	2692 1 ### ###############################	N N N N		
seals char  uin_r compuremen, uin_r compuremen, uin_r compuremen, uin_r colour.  rema uin_rema	static char *  zes rb_getmethod(re- zes   rb_getmethod(ru- zes   rpris_solution   re- zes   rpris_solution   re- zes   re- zes			
* NULL if the client entry could not be found. */	2677 * NULL if t 2678 */	N.N.	<pre>/* end of ebr_direct_rand_fds; /*</pre>	2671 1 return ebr_ 2672 } /* end of e
* method. Returns a pointer to the connection method string if successful,	2676 * method.	N	sigaction(SIGCHLD, &old_act, NULL);	2 }
routine to search the clients_installed file for a clients connection	2674 /* routine t	N ®	= 0)	2666 1 if (18tat == 2667 2 (
08 rb_germethod Page 120 of 134	Mon Oct 13 16:00:37 2008	Page 119 of 134	ebr_direct_rcmd	Mon Oct 13 16:00:37 2008

NON OCT 13 10:00:37 2000	Mon Oct 13 16:00:37 2008 RSLauxmain.c 55 rage 121 of 134 Mon	Mon Oct
ptr = INSTATE_NG cate_ptr = INSTA cs = 0;	J T	
<pre>if (dehugmode) {     rhg_log_state(</pre>	205 2 200 2 201 1 201 1 202 2 203 2 203 2 204 2 204 2 205 2 206 2 207 2 208 2	
<pre>if (UNUS == first_call) ( /* First rime processing. */</pre>		
<pre>gratic char msploghuf(NSSBUFFLER+ 11; boolean_ty ret_stats static int temp_exit_status; int write_prog = 1; exitp = 0, /* initialize to success. */</pre>	2015   20	
1 tr dors = 0; Char dors = 0; Char 0; \$0 = 0; \$0 = 0;	(vould)ffd, close_file(file_ptr);  ffdh_unlock_file(file_ptr);  zeturn NULL;  zeturn NULL;  /* and of fth_patmethod() */  283	2769 1 2770 1 2771 1 2772 }
<pre>( enum input_states previous_state;     static char</pre>	d host in clients_installed file	2765 1 2766 1 2767 1
<pre>borleam.ty *skipping_leading_whitespace, int *parselos. int *magPos)</pre>	} ffdb_destroy_holder(inclient_holder); 2805 } ffdb_destroy_holder(inclient_holder); 2805 }	2761 2 2762 2 2763 1
int "exity. room; in the control of	tenh_nucov_how\are (intimn_holder);  tenh_nucov_how\are (intimn_holder);  return b_cl_hastmethod/, return allocated string '/  2003  2003  2004	2758 4 2758 4 2760 4
<pre>static boolear_ty parse_remote_stderr_info2(int prog_fd, int remote_fd,</pre>	stalled_client->method); ptr);	
Returns boolean_ty False: The remote command has not exitted. * True: The remote command has exitted. */	<pre>if (client_type = NULL) if (client_type = installed_client-&gt;platform;</pre>	
* Mone of the I/O vars need to be initialized for the first call.	'concurrency = installed_client->concurrency; 2791	2748 6
<ul> <li>(I/O) int 'magfos the past position of the messages.</li> <li>(I/O) int 'magfos the position of the logging massage.</li> </ul>	2788 else 2799	2745 5
	*concurrency = 32767;	2743 6
* (Inp) char *reminstrame The remote client name.  * (Inp) boolean_ty first_call Is this the first call ??	if (concurrency != NULL)  if (concurrency != NULL)  {	
* (Inp) int *exito The file descriptor to wait on and read.  * (Ont) int *exito The Exit code.	nt->hostname)) /* a match? */	
of the remote cma. Read is dure dutual notation as were then returns with or without east codes.  The arror/warning messages come first and dealt with, if the early code of the remote and is returned.	<pre>installed_client = (ffdb_inclient_ty *)inclient_holder-&gt;drec; if (errnum == 0) if (errnum == 0)</pre>	2734 Z 2735 Z 2736 Z 2737 3
/* Reads remote file descriptor for reads of stderr	while ((inclient_holder = ffdb_read_record( file_ptr, &errnum)) i= NULL) 2776	2733 1
Mon Oct 13 16:00:37 2008 parse_remote_stderr_info2 Page 122 of 134	Mon Oct 13 16:00:37 2008 rb_gelmethod Page 121 of 134 Mon C	Mon Oct 13

Mon Oct 13 16:00:37 2008	3028 3	3025 4 3026 4		3022 4	3020 4		3016 4	3015 3	3013 3	3012 4		3009 3	3006 3	3005 4		3002 4		2999 4		2995 4	2994 4	2992 3	2990 3		2988 4	2986 3	2984 3	2983 3	2981 4	2980 4		2976 4	2975 4	2973 3	2972 4	2970 4	2968 4	2967 4	MOI OC 10 10:00:01 2:000
6:00:37 2008 RSLauxmain.c 59 Page 125 of 134	else if (c == '\n')	(*parsePos)++;  *skipping_leading_whitespace = FALSE;	<pre>temp_exit_status += atoi(xx); n++;</pre>	temp_exit_status *= 10;	$xx[1] = c;$ $xx[1] = '\0';$		char xx(21)	if (isdigit(c))		rbe_log_stats(0, *AUXPROG: ( %c) INSTATE GATHER STATUS(n*, c);	( depomende)	case INSTATE_GATHER_STATUS:	break;		*next state Dtr = INSTATE NEWLINE;	if (n == REMFD_MAGIC_LENGTH)	D++;		P No.	ret_status = TRUE; protfailed = 1;	*exitp = SPEXIT_REMOTE_STDERR_PROTOCOL;	if (c != REMFD_MAGIC_SUFFIX[n])		<pre>rbe_log_stats(0, "AUXPROC: ( %c) INSTATE_SEARCH_SUFFIXN\n", c);</pre>	TT (MENURANA)	case INSTATE_SEARCH_SUFFIXN:	Dreday.	)	(*parsePos)++;	cookiebuf[n] = c;	*/	* another cookie character.		e18e	protfailed = 1;	*exitp = SPEXIT_REMOTE_STDERR_PROTOCOL; ret_status = TRUE;		* Should have seen the SUFFIX(0) by now.	/*
Mon Oct 13 1	3093 4	3091 5	3088 4 3089 5		3085 5	3083 5			3079 6	3077 5 3078 6	3076 5	3074 5	3072 5	3070 4	3069 4	3067 4	3065 3		3062 3	3061 3	3059 3	3057 3	3056 3	3054 3	3052 3	3050 3	3049 3	3048 4	3046 4		3042 4	3041 4	3040 4	3038 4	3036 3	3035 3			3030 4
Mon Oct 13 16:00:37 2008 HSLauxmain.c 60 rage 125 or 134		msgLogBuff(*msgPos] = C; (*msgPos)++;	( area		<pre>memset(msgLogBuff, 0, MSGBUFFLEN + 1); *msgPos = 0;</pre>	>	msgLogBuff);		WriteStringMsg(prog_Ed, EDMREPROGMSG_RESTORE_RCMD_UNKNOWN,	if (write_prog)		rembostname,	<pre>msgLogBuff[*msgPos] = '\0'; (void) rbe_log_stats(0)</pre>	1f (('\n' == 0)    (('nBQros) >= massocratus*')	*/	/* * build a buffer to write to the restore log	The Committee of Landson Committee of the Committee of th	# (C  = REMED MAGIC PREFIX(0))	*/ MIC SCOP de acor de me TWA ***********************************	* For now, just shove the characters at stdout	* copied to staout.	be vulnerable to confusion based on gunk being	* an explicit Length for this state, so	* Eventually, the protocol should include	case INSTATE_COPY_TO_STDOUT:	break;		protfailed = 1;	*exitp = SPEXIT_REMOTE_SIDERR_PROTOCOL;	else		* no-op, skip leading whitespace */	/*	*skipping_leading_whitespace = TRUE;	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	else if (c == ' ' && else if (c == ' ' &&	done = 1;	<pre>"exitp = temp_exit_status) ret_status = TRUE;</pre>	

	10.000			The state of the s
if (write_prog)	3190 3189			
'debug progress',  DEBUG_PROG_MESSAGE_PEAK(&xcplogen_msg));	3186 3187			
(void) rbe_log_stats(0, %s: %s*,	3184			
if(debug_prog)	3182			
break;	3180			
else if(-1 == read_ret)	3176			
<pre>3 *zero_byte_read = TRUE;     break;</pre>				
if(0 == read_ret)	3172			
(void) rbe_log_stats(0, "The progress channel from xcplogen had %dextranous bytes.");				
if(0 != bytes_skipped)	3168			
<pre>2 read_ret = ReadMsg(</pre>				
<pre>while(1 == (fd_test = fd_avail_test1(xcpiogen_prog_fd))) </pre>	3164			
<pre>memset(&amp;xcpiogen_msg, 0, sizeof(prog_chan_msg));</pre>	3162			
1 *zero_byte_read = FALSE;	3160			
_	3158 1	/* end of parse_remote_stderr_info2() */	_	3126
		return ret_status;		3124 1
	3154 1	/* end of while loop */		3122 1
int read_ret, write_ret:	3152 1	breek;		3120
( )				5 6111
boolean_ty *zero_byte_read)	3150	*next_state_ptr = INSTATE_SEARCH_PREFIXO;		3117 5
ForwardXcpiogenProgress(int xcpiogen_prog_fd,	3148	else		3115 4
*/	3146	parseros = 0)		)III 5
* Side Effects:  * Read and writes file descritors.	3144	n = 0;		1112 5
* int the number of forwarded messages1 for an error	3142	memset(cookiebuf, 0, REMFD_MAX_COOKIE_LEN+1);		3110 5
* Returns:	3140	<pre>it (previous_state == instants_source_corrector);  *next_state_ptr = decodecookie(cookiebuf);</pre>		3107 5
int restore engine prog fd the progress channel from XC to AP.  * int restore engine prog fd the progress channel from AP to REP.	3136	if (c == '\n')		
* 5 1000	3136	case INSTATE_NEWLINE:		3104 3
<ul> <li>This routine read progress messages from XC and forwards</li> <li>then to REP. This routine should not block on a read().</li> </ul>	3134	break;		3101 3
	1132	*next_state_ptr = INSTATE_SEARCH_PREFIXN;		3100 4
/:	1111	n = 1;		3098 4
		else		3095 3096 3
				1011

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number_f6s = 2; monitor_f6s[0].f6 = remote_f6; in monitor_f6s[0].eoents = POLLN; monitor_f6s[0].eoents = 0;	1868 J. 1868 J	
denum inpol_fates demote_state_ptr;  semum inpol_fates demote_pate_state_ptr;  boolean_ty_skip_whitespace;  int pate_state_ptr;  int pate_state_ptr;  int MegPos;	340 340 340 340	
int remeta_extitation int forward_ret; boolean_ty emeta_extited = FALGE; brute_boll_ext; brute_boll_extited_extited = FALGE; brute_boll_extited_extite	94.1 1 24.2 1 24	
static int static int progress_fd, int remote_fd, int remote_fd, int remote_fd, int repoise_fd, int repoise_fd, int repoise_fd, int repoise_fd, int remote_se_fd)	1315 1315 1315 1317 1317 1317 1317 1317	
Returns: 77	310 310 311 311	
Int exployed De - (II) this tie west who we have a series of interpretated.  int 'remote_exit (Obt) the remote exit interpretated.  int 'semete_exit (Obt) AP: auxproc, NC: xcilogen.  int' REP: Restare Engine Process, AP: auxproc, NC: xcilogen.  RC: remote command.	222 222 222 226 227 222	
Argos: Argostess_fd (In) this file descriptor is from AP to AEP.  into progress_fd (In) this file descriptor is from AP to AP.  into remotic_fd (In) this file descriptor is from AP to AP.  char 'spance_programs (In) this the AP executeble nume.	25-turn mag_count: 222	
"The remote exit status indicates that the restore is interest,  22 error and warning measages are longed and forward on as  progress measages to RP. At the same time XC will send progress  information to AP, and AP will forward them to REP. XC does its  own logging.	(void) rbe_log_state(BBBECOVER_MKERE(erron).  Incountered error testing xcpiogen file 1115  Encountered error testing xcpiogen file 1115  return -1;  return -1;	3200 2 3201 2 3202 2 1203 1
* and RC: remote command. The RC sands error and warning messages  * tp Ap. When the RP is finished, RC's exit status is sent last.	Manual   M	
* This function handles IPC communications between the following  * This function handles IPC communications between the following  * proposess: REP: Restorm Engine Process, AP: awarco. XC: Xcplogen.		3191 3 3192 2 3193 2 3194 2
Mon Oct 13 16:00:37 2008 DemuxAuxChildren Page 130 of 134	ForwardXcplogenProgress Page 129 of 134	Mon Oct 13

gress(xcpiogen_prog_fd,	forward_ret = ForwardXcpiogenProgress(xcpiogen_prog_fd	fo	3372 2	channel decermines whether we are done with the restore.	3319 4
•	xcpiogen_zero_byte_reads = FALSE;			This presumes that the remote	-
g_Ed))	<pre>if(1 == Id_avall_test(xcplogen_prog_id))</pre>		3368 1 3369 2	* prior to the remote channel.	3318 4
*				ding warnings and err	3317 4
before we return	/* Should we test xapiogen for a last time	/* 5	3366 1	* messages,	3316 4
			3364 1	/* Xcplogen process is expected to send progress	3315 4
	}	-		(POLLHUP & monitor_fds[1].revents))	3313 3
				(POLLIN & monitor_fds(1).revents)	12
& Magpos) ;	remote first call = FALSE;		3360 4	if((POLIRDNORM & monitor_fds[1].revents)	3310 3
&parsePos,					09 3
&skip_whitespace,				else	3308 2
wremore_maxclecare_box.			1357	/*rbe_log_stats(errno, "duxproc "); */	3 6
2			3357 4	/* log this here */	3305 3
&remote_state_ptr,				( /* eintr */	3304 3
100000000000000000000000000000000000000			325	> = = = = = = = = = = = = = = = = = = =	3302 2
remote firet call			3355 4		3301 3
remote_progname,			3354 4	Dreak;	3299 4
&remote_exitinfo,					
raio cal res			3352 4	"waiting for aborted restore's remote	3298 4
e_stderr_info2(progress_fd,	remote_exitted = parse_remote_stderr_info2(progress_fd		3351 4	"No remote exit status received in 5	3297 4
	monitor_fds[0].revents = 0;			5	
	*/		3348 0	/* leaving w/o status */	3294 4
insted.	* is read this loop is terminated			oppose anoma no	
ack to parent.	* send remote exit status back to parent.		3346 4	*/	3292 4
Read unat intoination, passe it, and if available	* Stream. Read Clac Lillolin		3345 4	the remote process will not know that xcplogen is	3291 4
ation mayor it	+ + + + + + + + + + + + + + + + + + + +			but not the remote_fd. In this case	
d to send information back	/* Remote process is expected to send information back		3394 4	connection might be SSL,	3290 4
these conditions. '/	/* POLLRDBAND Why do we need these conditions.		3342 4	remote process connections,	3289 4
			3341 4	Do this for all remote	3000
events))	(POLLHUP & monitor_fds[0].revents))		3340 3	without the remote exit status.	
	(POLLRDBAND & monitor_fds[0].revent		3338 3	have gone away without us knowing it,	
].revents)	if((POLLEDNORM & monitor_fds[0].revents)		3337 3	If this is an SSL socket read timeout, the client may	8 0
	,		3336	/* Timeout on read. AND we were canceled (SIGUSRI)	3284 4
	number_fds = 1;		3334 5		
	s condition and any according to		3333 5	/* check for the Attention signal and other periodic checks. */	
ead. Ille	* second fd is for xoniosen.		3331 5	/* timed out */	3281 3
this fd,	/* Lets no longer wait on this fd.			-	
a (T anoma)	If(IROD == xcprogen_zero_byce_reace)		3328 6	(	3278 2
&xcpiogen_zero_byte_reads);			3327 4	(EINTR == errno) && (-1 == poil_ret) && (	3277 1
progress_fd,					
nProgress( xcpiogen_prog_fd,	forward_ret = ForwardXcplogenProgress(		3325 4	while([FALSE == remote_exitted) &k  monifor fds. number fds. 5000)))	3274 1 3275 1
ALSE;	xcpiogen_zero_byte_reads = FALSE:		3323 4	monitor_cos(1).revence = 0;	3272 1
	<pre>monitor_fds[1].revents = 0;</pre>		3320 4	<pre>monitor_fds[1].fd = xcpiogen_fd; monitor_fds[1].events = POLLIN;</pre>	3270 I 3271 I
	,	The second liverage and the se	-		

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				} /* DemuxhuxChildren() */	3389 } /*
				*remote_exit = remote_exitinfo; return 0; }	3385 2 3386 2 3387 1
				<pre>if(TRUE == remote_exitted) (</pre>	3364 2
				return -1;	3381 2
			oll Children mids!"):	<pre>if (-1 == poll_ret) {    /* Not eintr */     rbe_log_stateRECOVER_MKERR(errno),     ranyoroo feelled to noll children midel*);</pre>	3377 1 3378 2 3379 2
				-	3375 1
			Excuiogen zero byte reads);	in a	3374 2
1000	OU.01 ZOUG	Molt Oct 13 10.00.37 Z000	progress_fd,	00:37 2008 DemuxAuxChildren	Mon Oct 13 16:00:37 2008
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			#include <eb rb_log.h=""></eb>	61
			#include <eb eb_port.h=""></eb>	60
	);	124	*/	6 15
	"NSTRI_GetringResults",	122 1	/*	57
	"RSTPI_FindRestorableObjects",	121 1		_
	"RSTPI_StartRestore",	120 1	#include <gircn.n></gircn.n>	22
	"BOTTELLEBINGTONGCOOCKUDECTIONG"	118 1	#include <dirent.h></dirent.h>	53
	- 1	117 1	#include <sys peram.h=""></sys>	52
	"RSTPI_IsThereNextBackup",	116 1	*/	2 2
	"RSTPI IsTherePrevBackup",	115 1	* Creation Fearing	3 49
	*RSTPI SetMostRecentBackup",	113 1		
	"RSTPL_SetNextbackup",	112 1		
	"RSTPI_SetPrevBackup",	111 1	#define _POSIX_SOURCE 1	46
	"RSTPI_SetBackupForTime",	110 1		
	"RSTPI_GetCurrentBackupTime",	109 1	Transport and	
	"RSTPI_GetAllBackupTimes",	108 1		
	"RSTPI_IsObjectMarkable",	107 1	* The following is required for code that uses FOSIX API's.	
	"RSTPI_IsObjectMarked",	106 1	a positional destriction and annual property of the property o	9
	"RSTPI_UnmarkObject",	105 1	reacure case switches.	. 39
	"BOTOT MarkObiect",	103	*	38
	"XSIPI_Geclopieverrempiace",	102 1		-
	"RSTPI_Submit",	101 1		
	*RSTPI_ClearRestoreContext*,	100 1	#end\f	3 3
	"RSTPI_GetNextLevelObjects",	99 1	"SDates";	z :
	"RSTPI_SetTopLevelObject",	98 1	SREVISIONS "SREVISIONS"	2 2
	"RSTPI_GetTopLevelObjects",	97 1	BC6 14 11 a	: 2
	"RSTPI Initialize",	96 1		_
		- +	**	29
	char *niFuncNames[PIFuncIndexLast+1] = {		** with the what(1) utility. The incent is to keep this short.	28
		32	/* The following provides an RCS id in the binary that can be recated	27
109	* AS Che Piruncindex varues derined in North	91		
ile Smile order and Posteron	These mast be in the same order and beaution			
to same order and position	* of the pluginData structure.	90	· · · · · · · · · · · · · · · · · · ·	2
Decrous in the brancerray	* Definitions of the names of the plugin functions	89	· 电电子存储器 计多数分子 电电子电子 电电子电子 医电子 医电子 医电子 医电子 医电子 医电子 医电	2 2
the property of	/*	88		2 2
			which will affect this header.	3 12
			Compile-Time Operation must list any compile time definitions	20
	struct restore_context *rcp = NULL;	8 9	O To The Table	19
	*/	2 3	3 3	18
	* throughout the rest of the restore operations	9 0	** Internal Functions:	17
will be used	t made is the close! "restore context" that will	3 22		16
	* External declarations	80		5 :
	/*	79	*** RSTSL Initialize	2 5
			** 'Yable of Concence:	: 13
	000000000000000000000000000000000000000			11
kt *rcp // x *piDataPtr );	<pre>static eerrno_ty init_plugins( restore_context "rcp // static int validate_plugin( struct pluginData *piDataPtr );</pre>	75	initialize and terminate the restore operation.	10
*******		_		
	*/	73	** Furpose: This module contains the Restore Service Library	0 00
his source file	* #defines, structures, typedefs local to this source file	7 2		
	/*	;	** Copyright (c) 1998,1999 by EMC Corporation.	6
			Make Statement S	د س
	#include <rsistartup.h></rsistartup.h>			
	*/nclude <bsi nterns.h=""></bsi>		***************************************	
	* Local headers	65	· "我有有有有的好玩,你还有有有有有有有有有有的,我们就有什么有一个有有有的,我们就是我们的,我们就是我们的,我们也不是我们的,我们们的人们的,我们们们们们的,我们们	ы
	/+		Mon Oct 13 16:39:31 2008	Mon C
Page 2 of 16	Mon Oct 13 16:39:31 2008	Mon Oct		

						-															Τ,	
Mon C	188 1 189 1	183 1 184 2 185 2 186 1	179 1		165 2 166 2 167 2	162 1	160 1	156 3		151 1	148 1	146 1		142	140	137	36	5 2 3	130 131 132	28	27 0	3
Mon Oct 13 16:39:31 2008	'* Initialize the few this early stage.	<pre>if (status = rbrlog_begin(rcp, progname)) {     return(status); }</pre>	/* /* Initialize the logging mechanism //		<pre>if (!rcp-&gt;rc_human_uidname) {     rec_api_log_csm(SUB_CSM_NONEM, NULL);     return(SP_RB_RECOVER_NONEM); }</pre>		memset(rcp, 0, sizeof(		rop = (struct resto	- 1	* now. */			( eerrno by status = E_SUCCESS;	serro_ty	***************************************	* userName (I) - The name of the user	* Parameters:	* This function takes can * session. This must be * in the Restore API.	* RSTSL_Initialize:	/**************************************	Mon Oct 13 16:39:31 2008
RSLinitin.c 3	Initialize the few "recover context" variables that we this early stage.	gin(rcp, progname))	ing mechanism.	es the appropriate field in the recovery context to indicate that this recover session is based on the Recover Aff. This flag is in place for historical reasons but is used by other parts of the Recover Aff library.	name) ( CSM_NOMEM, NULL); _NOMEM);	rcp->rc_human_uidname = esl_strdup( userName );	<pre>memset(rcp, 0, sizeof(struct restore_context));</pre>	rec_spi_log_csm(SUB_CSM_NOMEM, NULL); return(EP_RB_RECOVER_MOMEM);	<pre>rcp = (struct restore_context *)mailoc(sizeor(</pre>			* If we have not yet allocated space for a restore_context * structure, do so now. If we have already done so, just c.		JCCESS;	* * * iserName }	***************************************	e of the user.		This function takes care of all the initialization for a rescove session. This must be called prior to any of the other functions in the Restore API.		/中国中央中央中央市场的公司公司中央中央市场中央市场的公司公司公司公司公司公司公司公司公司公司公司公司公司公司公司公司公司公司公司	RSTSL Initialize
Page 3 of 16	it we can at			to indicate API. s used by					re_context));			ontext just clear it				/**********/			er functions			Page 3 of 16
Mon Oct												210 1	208 1	206 1	204 1	202 2		198 1	196 1	193 1	191 1	Mon Oct 1
Mon Oct 13 16(39(3) 2008												return( status ): /* End of RSTS	status = init_plugins( rcp );	/* Do plugins setup	J	( return(status);	if (status = startup(rcp))	* -Infer any inf	/* * The following call will:  * The following call will:	setup_proc(rcp);	*/	Mon Oct 13 16:39:31 2008
Documento +	DO: 1000 0 A											n( status ); /* End of RSTSL_Initialize() */	ins( rcp );	Do plugins setup: Find and initialize all valid rescure publis: *			(rcp))	-Infer any information we can at this point.	e following call will: -Initialize the saveset datatbase.			RSTSL_Initialize
- ago + ot 10	Dogs A of 15													/* :sqil								Page 4 of 16

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dlclose( rcp-> currentElptr-> libHdl );
324 3 /* log error, continue */ 339 1 /* log error( err, 330 3 rbe_user_error( err, 331 3
2 /*-allwplugin to clean up and close .so: 2 if (E_SUCCESS != (err = 2 rcp->currentFiptr-> piFuncArroy[ PIF
rcp->rc_backup_app = 0; while (rcp->currentPTptr = rcp->piList) 2 (rcp->rc_backup_app**;
* Free the plugin related
if (NULL != rcp->ebvllist)  (void)ebvl_volidlist_destructor(
+/
- 22
if (NULL i= rcp->rc_dsnones)
* we can do a free here.
* Free the DS_NONE structures array  * Note that even though rc_danones is the head of linked list  * Note that even though rc_danones is the head of linked list  of danone_info atructures, the list is allocated via malloc  * of danone_info atructures.
1 2 4
1 #endif
. 2 2
1 #if 0 if (NULL  = rcp->rc_cfgname)
1 /* 1 * Free the configuration structures 1 */
274 2 { free(rcp->rc_umarks_by_plane); 276 1 }
Mon Oct 13 16:39:31 2008

Z		395	4 4	391	2 2 2	385	3 3		380	: 55	25	= =	370	2 2	366	365	×	360		355	35	35 5	===	3 3	344	7 7	=	: :	Mo
on Oct	198 1	5 G 1 N	393 1 394 2	1	388 1 389 2 390 2		2 -	381 1	2 4		375 2 376 1	2 -		2 2	,,	Di Zi		1 2 5		H 2 2	-	350 2	w m	Ø 00 ₽ 20		340 1	-	336 2 337 1	n Oct
	if (NULL := rcp->rc_cpiogen_executable)	<pre>free(rcp-&gt;rc_source_client_hostname); )</pre>	if (NULL != rcp->rc_source_client_hostname)	_	<pre>if (NULL := rcp-&gt;rc_md_context) {     /* don'c free its internal/temp data: free(</pre>	free(rcp->rc_client_dirtop); )	<pre>if (NULL != rcp-&gt;rc_client_dirtop) {</pre>	J	/* don't free, its internal: free(rop->rc_client_scriptname);	if (NULL != rcp->rc_client_scriptname)	<pre>free(rcp-&gt;rc_client_hostname); }</pre>	<pre>if (NULL != rcp-&gt;rc_client_hostname) {</pre>	<pre>free(rcp-&gt;rc_client_rbuname); }</pre>	<pre>if (NULL != rcp-&gt;rc_client_rbuname) (</pre>	J	<pre>/* don't free, its internal: free(rcp-&gt;rc_effective_uidname); */</pre>	if (NULL != rcp->rc_effective_uidneme)	<pre>free(rcp-&gt;rc_human_uidname); }</pre>	if (NULL != rcp->rc_human_uidname)	<pre>free(rcp-&gt;rc_workitem_name); }</pre>	if (NULL != rcp->rc_workitem_name)	<pre>Free(rcp-&gt;rc_template_name); }</pre>	<pre>if (NULL != rcp-&gt;rc_template_name)</pre>	[X86(XCD->XC_rob_rever_on]ecr_name;)	<pre>if (NULL != rcp-&gt;rc_top_level_object_name) {</pre>	* Free the various simple string buffers	,	<pre>free (rcp-&gt;currentPIptr); )</pre>	Mon Oct 13 16:39:31 2008 RSTSL_Finish Page 7 of 16
Page 7 of 16					*				me);							me);							and the Party						-
Mon Oc																		422 1		418 1	415	Ê	910 2 411 1	408 1 409 2	405 2 406 1	400	401 1	399 2 400 2	Aon Oct
Mon Oct 13 16:39:31 2008																		return( err ); /* RSTSL_Finish */		free(rop); rop = NULL;	*/	* Binelly deallocate t	free(rcp->rc_pwd);	if (NULL != rcp->rc_pwd)	free(rcp->rc_plugin_wi_types);	<pre>if (NULL != rcp-&gt;rc_plugin_wi_types) {</pre>	3	( /* don't free, its :	Mon Oct 13 16:39:31 2008
RSLinitfin.c 8																					*/	he restore context itself			_wi_types);	in_wi_types)		<pre>/* don't free, its internal: free(rcp-&gt;rc_cpiogen_executable); //</pre>	TO OF THESE
Page 8 of 16																												_executable);	rageouto

Oct 198830 2000   Inc. Doughi   Page 0 in	RSLinitfin.c 10 Page 10 of 16	Mon Oct 13 16:39:31 2008	Mon Oct 13	Mon Oct 13 16:39:31 2008 RSLinitfin.c 9 Page 9 of 16	Oct 13 1	Mo
Introduce   Page 10		}	541 3			
INCLOURS.  REAL PORTS.  REAL PO	ï				pr  -	482
INCLORUMN  REAL POINT  REAL PO	library %s\n",		9 6		-	480
INCLUDING  REQUESTATION  REAL PROPERTY OF DEAL PROPERTY O	*Validation failed for restore plug-in		558	struct pluginIDdata *idDataPtr;	- ра	979
INLEADURE PROPRIES  REQUESTED TO SECURE THE PROPRIES OF TWENTY AND PROPRESSED TO SECURE THE PROPRIES OF TWENTY AND PROPRESSED TO SECURE THE PROPRIES OF TWENTY AND PROPRESSED THE PROPRIES OF TWENTY AND PROPR	who more ormani i		537 4	int vel_result;	10	478
Int_Days	e if (val_result < U)	6186	536 3	struct pluginData *piListPtr = NULL;	_	977
Int_Dugnes		, ~	535 3	struct pluginData *piDataPtr = NULL;	ь,	476
Int_Dugnes    Project   Dugne   Dugne	direntp->d_name, dlerror() );		534 4			475
Int_Dalgins    Female volue   Female	%s\n*,				- 1-	
Int_Dugnis	ons missing from restore plug-in library %s:	*Function				472
Int_Dalgats    Fealer to   10	rbe user error( 0,			tic eerrno_ty init_plugins( restore_context *rcp )	_	471
Int_Dugnes	-1    val_result ==					-
Int_Daigns		_		crose brugin arr	* *	468
Int_Dugnes	piDataPtr ) ))			,		467
Int_Daigns    Female volue   Female	. (val result = validate plugin)			add workitem types to composite exclusion list	*	455
Int_Dugnes	Trace	/* Do Identify p		call Initialize function		465
INCLINGING   Projection   Proje	1	/* Fetch address		fatch all indicated optional function addrs	*	463
Ind_Dulgins    Project   Dulgins   Project   Dulgins   Project   Dulgins   Project   Dulgins   D				call identify function		462
INCLINGUIS   Frage viol				fetch all mandatory function addresses	*	461
INCLIDIGIS   Frage viol				continue		460
INCLINUISM  INCLIN	%s: %s\n*,			errors below:		458
Ind. Dulgins    Project   Dulgins   Project   Dulgins   Project   Dulgins	restore plug-in			open shared library file (else continue)		457
INCLINUISM  INCLIN	the user error( 0,	~		verify so file (else continue)		456
Int. Dulgins    Project   Dulgins   Project   Dulgins   Project   Dulgins	= dlopen( shlib_path, RTLU_NUW )))			while read_next_entry succeeds	* .	200
INCLIDIGITAL PROJECT TO PRESENT TO PRESENT TO PRESENT TO PROJECT TO PRESENT TO PROJECT TO PRESENT TO PROJECT TO PRESENT T	== (piDataPtr->libHdl	if (NULL		anno plunis dis		453
Int_Dispits    Int_Dispits   I	&shlih mathishlib dirlen], direntp->d_name );	) vector		Logic/pseudo code:	*	452
INCLIDIGITAL PROPERTY OF THE PARTY OF THE PA	continue; /* skip this guy */			B_SUCCESS OF EP_RB_RBCUVER_XXX	* +	450
Ind_Dispits    Compand plot   Dispits   Dispit	== strstr( direntp->d_name, ".so" ) )			Returns:		449
INCLIDINGS    Frage of the   Included   Incl		tur		none		447
Ind_Dispits    Fragge of to   Decirion   Continue   Con				Dutputs:	*	446
INCLIDIGITAL PROJECT COLORANT CONTROLLED COLORANT CONTROLLED COLORANT CONTROLLED COLORANT CONTROLLED CONTROLLE	/* fall thru to cleanup		508 4			445
Ind_Dulging   Project   Dulging   Project   Dulging   Du	0		507 4	cp (I) -	*	440
INCLIDIGITAL PROJECT OF CONTROL	9		506 4	Tablita:		442
Ind_Dubgins			505 3	arameters:		441
INCLINUISM  INCLIN	. 6		504 3			440
Ind_Dispits    Fragge of the   December   De	xt plugin data structure	_	503 3		*	
Ind. Dubgins   Fragge of the		if (NULL	S01 2 S02 2	Fina	•	438
INCLINUING REPORT PROFESSION AND ADMINISTRATION OF SEPERATURE AND	direntp = readdir( dirp )))	while (NULL := ()	499 1 500 1	are supported		437
INCLINUINGS    Project violation   Project vio			400	mandatory functions. The RSTPI_Identify function is called for each		436
Ind_DAUghTB	trlen (shlib_path);	strcat( shlib_pa	496 1	and validates for versions and presence of		435
INIT. DAUGHER    Control	th, eb_cure_plugin_dir );	stropy( shlip_pa)	405.	eb_cure_plugin_dir). All .so riles in char		
INCLINUINGS   Projection   Inclinuing   Incl		_	300		*	434
Ind_Dugins regist of the control of		are.	N			5
Int_Dugins requestion:    Available   Color	/* later do this	recurs a		This function locates, opens,	٠	432
INCLINUIGHS  Fragge of the local place of the local	a so process and principle.		N	Function Description:	* *	430
Ind_Dudgins regise of its    A copen plugin directory or Dast '/   A c		recurn a	489 2			929
INCLINING PRODUCT OF THE PRODUCT OF	Property of the second of the		NI	nit pluoins	. :	427
Int_Dugnes regressing monton a rooman seem of dirp; = opendir( eb_cure_Diugin_dir))  488 1	log_csm( SUB_CSM_PLUGIN_ERR, NULL );	{ rec_api_	486	化化二丁二丁二丁二丁二丁二丁二丁二丁二丁二丁二丁二丁二丁二丁二丁二丁二丁二丁二	-	
Init plugins rage 8 of 10	<pre>trectory or bust "/ trectory or bust "/ t</pre>	/* open plugin d if ( NULL == (dia	485 1	Allermany	-	
DODG OF THE PROPERTY OF THE PR		6:39:31 2008	Mon Oct 13	5:39:31 2008 Init_plugins Page 9 of 16	Oct 13 16	Mon

Mon Oct 13 16:39:31 2008	593 4 594 4		590 3	2 55 80 80 80 80 80 80 80 80 80 80 80 80 80	586 4	584 3	581 2		578 2	577 2	576 2 576 2			568 2 569 2 570 2	566 2	565 3	564 3		561 3 562 3	560 3	558 3		556	554 2 555 2		550 3	549 3	507 3	546 4	546 4 545 4	542 3	Mon Oct 13
	<pre>memcpy( twp_types,</pre>	/* move old list to new buffer and free old list */	if (NULL != rcp->rc_plugin_wi_types)	) Digazi	if (NULL == tmp_types) {     status = EP_RB_RECOVER_NOMEM;	tmp_types = calloc( i, i = lowecart==summ(types + rop->rc_num_plugin_wi_types	<pre>if (idDataPtr-&gt;num_types &gt; 0)</pre>	/* add workitem types to composite exclusion list */	piDataPtr = NULL;	piListPtr = piDataPtr: /* new end of list */	piListPtr->next = piDataPtr; /* link from prev */	<pre>ie (NULL == pilistetx) rcp-&gt;pilist= piDataPtx; /* first in list */</pre>	/* add piDataPtr to valid plugin list */	/* gave plugin's applaca */ placatr-papbata = rcp->appData; rcp->appData = NULL;		continue; /* on any error, skip this lib */	status = E_SUCCESS; /* this was't fatal */	piDataPtr->libHdl = NUDL;	diclose( piDatatt: -/*JibHdl );	"RSTPI_Initialize failed for restore plug-in library %s\n",	( the light print status.	<pre>piDataPtr-&gt;piFuncArray[FIFuncIndexInitialize]( rcp ); if (E_SUCCESS != status)</pre>	status =	<pre>/* let DC plug-in do its initialization */ rcp-&gt;appData = NULL; rcp-&gt;appData = //</pre>		piDataPtr->libHdl = NULL; continue; /* on any error, skip this lib */	dlclose( piDataPtr->libHdl ); /* close .so on errors */		direntp->d_name );	"RSTPI_Identify failed for restore plug-in library	else	Non Oct 13 16:39:31 2008 Inti_programs 1- aye 11 or 12
Mon Oct 13 16:39:31 2008															625	H	622 1		619 3	616 3 617 3	615 3	613 2		609 1	-		603 2	601 3	600 3		596 3	
9:31 2008																return status;	)	free (	diclos	rcp->a piData	( /* allow plu	( /* Free contents of plugin list: */	if is smoores in statu	<pre>if (NULL != piDataPtr);  free (piDataPtr);</pre>	( doin) Crowcart ( comb	(modd)alaeadir/ dirm ):	) }	tmp_types[	rcp->rc_nu	idb	memcpy ( tmp	
RSLinitlin.c 12																		free (piDataPtr);	<pre>dlclose( piDataPtr-&gt;libHdl ); piListPtr = piDataPtr-&gt;next;</pre>	rcp->appData = pilatartr->appuaca; piDatartr->piFuncArray[PIFuncIndexFinish] (	( /* allow plugin to clean up and close .so:	e contents of plugin list: */ while (NULL != (piDetaPtr = piListPtr))	to	x);	• •	•	off and the second seco	tmp_types[rcp->rc_num_plugin_wi_types] = rcn_>rc nlugin wi types = tmp types;	rcp->rc_num_plugin_wi_types += idDataPt	idDataPtr->wi_types, idDataPtr->num_types);	memcpy( tmp_types + rcp->rc_num_plugin_wi_types)	free ron-pro plugin wi types );
Page 12 of 16																			į	dexFinish](	.80: */							es] = 0;	idDataPtr->num_types;		'n_wi_types,	

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Page 14 of 16	Dol initio o 14	000000000000000000000000000000000000000	DD1 5165 - 10	
		-	return -2;	678 1
			if (NULL == (idDataPtr = (	677 1
			(S)	
			&piDataPtr->idData);	
			<pre>/* call identify and validate: */ status = piDataPtr-&gt;piFuncArray[PIFuncIndexIdentify] (</pre>	672 I
			return -1;	668 2 669 2
			pirchenames [index]	
	G.	721 1 recurn U,		665 2 666 2
		-	(ex++ )	
	return -4;	718 2	STEEDER TOWNS TO STEED TO STEE	1 100
	pipataPtr->idData = NULL;	716 2	- Charles	660 1
piFuncNames[PIFuncIndexGetNedia] )))	piFuncNames (PIFu		the first of the f	μ
G COLCT - AT TRACTOR	= (Disumpset) disparation of the contract of t	713 1	_	
IPUNCINDEXGET_MEDIA)) IFUNCINDEXGETMEDIA)	<pre>k&amp; (NULL == (piDataPtr-&gt;piFuncArray(FiFuncTheGatMedia)</pre>	t-r	**************************************	655
	(RSTPI_OPTION_SPECIAL_GET_MEDIA	711 1	SCOVER_XXX) for error codes returned from Identify function	
its addr or bust */	/* OR if special getMedia option set, get its addr or bust */		effer	653
piFuncNames(PIFuncIndexFindResults))	piFuncNames[PIFu		indicated by options	652
	i Post of	707 1	if version validation fails OR identity returns Junk	650
ncindexrindesuics;	piDatePtr->piFuncArray[PiFuncIndexrindxesurds] = (nfFuncPtr)		on any missing required functions	649
	(NULL == (	705 1	* Returns:	647
piFuncNames[PIFuncIndexFind] )))	piFuncNames[	1		646
ataPtr->libHdl,	( (NULL == (piPataPtr >pirunGATEW(rireductions ind = (piPuncPtr) dlsym( piDataPtr >libHdl,	702 1 && 703 1	FuncArray in piDataPtr is loaded with pointers to plugin functions	645
TION_MASK_FIND))	== (idDataPtr->options & RSTPI_OPTION_MASK_FIND))	p#  p	* Outputs:	66
addr or past -/	<pre>/* OR if special find option set, get its addr or bust "/    ( (RSTPI OPTION SPECIAL FIND)</pre>		- Pointer to plugin data structure with libHdl set	-
adds on burst */	Par disconnection of the second	μ.	* Inputs:  * piDataPtr (	641
NexStartRestore ()))	prepared DTF:ncTndexStartRestore   )))	697 1	A EXTERNATION OF A	640
ataPtr->libHdl,	= (piFuncPtr) dlsym( piDataPtr->libHdl,			808
cIndexStartRestore]	(NG	695 1 666	* returned on version mismatch and missing optional functions.	637
TION_MASK_START))	<pre>it ( ( RSTPI_OFITON_SERCIAD_START OFFION_MASK_START))</pre>		_	636
dr or bust */	if startRestore option set, get its addr or bust */	1		635
	recurn -3;		* and stores them in the function pointer array.  If any function is missing 6	634
TT POSTICUE /	piDataPtr->idData = NULL;	N N	* This function retrieves the addresses of the mandatory plugin 687 functions 688	633
i_types)	DataPtr->num_types && !idDataPtr->w	if if		632
			* Office of the state of the st	630
	return -2;	683 2		629
	<pre>( /* only version i supported so far */ piDataPtr-&gt;idDeta = NULL;</pre>	N N	10.00 10.00	060
	if (idDataPtr->version != RSTPI_VERSION)	680 1 1f (id	nit pluging */	100
Page 14 of 16	validate_plugin	Mon Oct 13 16:39:31 2008	Mon Oct 13 16-39-31 2008 validate pludin Page 13 of 16 M	Mon Ord

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	validate_Plugin *	
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Fri Oct 10 15:18:01 2008 RSLplugin.h 2 Page 2 of 18	Fn Oct 10 15:18:01 2008 RSLplugin.h 1 Page 1 of 18
<pre>iii i typedef boolean_ty (*RSTPI_SubmitProgressProc)(</pre>	
1 typedef boolean_ty	
108 1 /* callback function prototypes: */	48 1 ' procecype changes, or a piugin function is added, this value should be
	Whenever a plugin function
<pre>10s 1 typedef struct restore_context restore_context;</pre> /* for function prototypes */	1 /* The following definition identifies the version of the Restore Plugin
10) 1 typedef eerrno_ty (*piFuncPtr)(); /* genexic plugin func prototype */	
100 1 char *piFuncNames[PiFuncIndexLast+1];	######################################
98 1 */	19 1 #andif — Carony "C" (
1 /* De	#ifdef H.RSLETAPI #define H.RSLETAPI #ifdef maturalty
92 1 #Gefine PTFuncIndaxGetMedia 28 93 1 #define PTFuncIndaxGetMedia 28	/
1 #define PIFuncIndexStartHestore	28 *** <restore restore.api.n=""> 29 ** <restore restorerpc.h=""></restore></restore>
1 /* Optional functions: */	** <ebutil abutil.h=""></ebutil>
1 #define	;
1 #define PIFuncIndexIsNxtForTime	23 ** Compile-Time Options: 24 ** Need:
1 #define PIFuncIndexIsNextBkup 1 #define PIFuncIndexIsPrvForTime	** Engine (server).
80 1 #define PIFuncIndexSetMostRont 19 81 1 #define PIFuncIndexIsPrevBkup 20	20 ** component of the Restore API that executes as part of the
1 #define PIFuncIndexSetNextTime 1 #define PIFuncIndexSetFirstTime	to be called by the Restore Service Library the generic server side
1 #define	** RECOVER_API. The plug-in API is provided in a shared library, designed
1 #define PIFuncIndexGetAllTimes 1 #define PIFuncIndexGetCurTime	client-server based restore functionality formerly provided by the
1 #define PIFuncIndexIsObMarked	16 ** be compatible with the new Restore API.  The Restore API provides
<pre>1 #define PIFuncIndexMark 1 #define PIFuncIndexUnmark</pre>	15 ** This header defines the API that a backup application must supply to
1 #define PIFuncIndexGetTLTemps 1 #define PIFuncIndexDoesAltExst	functions are part of the restore_legacy library.
1 #define	12 ** restore engine for use by restore plugin libraries. These
1 #define PIFuncIndexSetTLO	- Define prototypes of common functions exported from
63 1 #define PIFuncIndexGetTLO 2	library - berine prototypes or functions in a restore pingin
1 #define PIFuncIndexIdentify	Purpose: Two-fold:
58 1 */	6 ** Copyright (c) 1999 by EMC Corporation.
	4 ** File Name: RSLplugin.h
so 1 /* Definitions of the indices of the plugin function addrs in the	
si   #define RSTPI_VERSION 1	2
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Fit Cct 10 15:18:01 2008 RSLplugin.h 4 Page 4 of 18	nacharilla rages of 18
6.	LOSITON MODII - SURVE SUSPENIED UXO
210 1 /**********************************	1 #define RSTEI_OFTION_MASK_MULTI_PLANE 0x8
0	restore
1 新南京的市东京南部市市市南部市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市	156 1 * warned that changing backup planes will cause objects marked for
*	
1 * Returns:	154 1 / The rollowing riag indicates whether objects can be restored from 202
*	
1 * num_types - number of witypes in the witypes array	157 1 #define RSTPI_OPTION_NO_FIND 0x0
* wi_types - pointer to array of workitem types supported	1 #define BSTRI_OPTION_SPECIAL_FIND 0x6
1 * defined above.	1 #define RSTPI_OPTION_FIND_SUPPORTED
1 " The bit definitions for this parameter (	fine RSTPI OPTION MASK FIND
The best desired to the	1 * searches the moat data can be used.
64 byte buffer address)  1 * options - Bit mask identifying the optional plug-in features	or that the generic find function that 196
1 * name - Name of the backup application (	
1 * version -	144 1 * indicates if find is supported, The first Dic
*	2
1) - pi_ders ( 0) - address of the structure identifying the plugin to the	the find the following bits indicate whether and now the ping-in supports
*	
1 * Or Gie prug-rin are specified.	139 1 #Gefine RSTPI_OFTION_GENERIC_START 0x0 190
	1 #define RSTPI_OPTION_MASK_START 0x1
1 * for compatibility with the restore engine,	137 1 */ ISB
1 * regard to the operating restore engine.	1 /* This bit indicates
* 5540 53367403 40 001100 0000	*
ш	
11 人名英格兰地名美国格兰地名美国格兰地名美国格兰地名 医克勒氏征 医克勒氏征 医克勒氏征 医克勒氏征 计对比 计分类	132 1 /** Definitions of the options bits in the RSTPI_Identify function 1
	1
٠	/* Number of witypes in the witypes array */
	by the plugin */
	z citar wi_types;
	defined below. */
1 #define RSTPI_OPTION_SYMM_RESTORE_ALLOWED 0x20	
1 #define RSTPI_OPTION_MASK_SYMM_RESTORE	125 2
1 * a symmetrix ('SCSI')	2000
and the three transfers of the transfer of the transfers	. "
1 /+ The following flag indicates whether chiegrs can be	
1 #define RSTPI_OPTION_GENERIC_GET_MEDIA	/* Name
1   #define RSTPI_OPTION_MASK_GET_MEDIA 0x10	
1 */	/* Version of the plugin hee
* objects are marked and unmarked.	118 2 struct pluginLudets (
* maintain the ebvl_volidlist_ty * list in the restore_context	I Propagation of the trace trace tree contains and trace and a contained
* restore the restorable objects currently n	The Definitions of the data that the Differ Tidentific
1 * RSTPI_GetNecessaryMedia function to return the list of media need	113 1 typedef boolean_ty (*RSTPI_QuitTest) ( void );
*	ean_ty (*RSTPI_FindProgressProc)(
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1) - specifies whether perentunject is a top level or container object	266 1 * CopievObjs (O) - ptr to linked list of Top Level Objects 323
(	SOURCEHOSE (
(I) - the parent object	. 4
1 * context (I) - Pointer to the restore context	* Parameters:
***	
1 * continuing on the next call to thid function.	
Teratu.	The generic restore service library
caller must s	200 1 * set of applicable backup objects plug-in call must recrive one whole
1 * returned in a linked list, there could conceivably be thousands of	
1 * whether or not to include bad files. Even though the objects are	meximum
	1 * While the restore API will be called repeatedly to retrieve a
* of a given nament object.	257 1 * ALAN AND COMP AND COMPONED OF CHIEF MAYOR CALLED STATE COMPONED COM
financian in internal to olive votational of	tile for the love of the city to the control of the
1 * Get Next Level Objects:	1 " up successfully. For network backups, though,
************	1 * It is a GOAL of this routine to return all objects ever backed
	*
The second secon	* which are restorable for the given client.
context	251 1 " ICHMS IOY NECWORK DECKUPS AND WORK ICHM Sets FOR Symmetrix Connect 306
1 eerrno_ty	objects (work
12. 在原来的电影的电影的电影的图片的图片的图片的图片的图片的图片的图片的图片的图片的图片的图片的图片的图片中央中央文化的图片的电影的图片的图片的图片的图片的图片	250 1 * This function is called to retrieve the configurable backup
r packupunjecc (r) - cue serected tob rever onlect	sec sopresed objects
(1)	/**************************************
1 * Parameters:	299
	70
1 * E_SUCCESS on success	1 eerrno_ty RSTPT_Finish( restore_context *context );
1 * Returns:	242 1 **********************************
A SECURE CONTRACTOR OF THE PARTY AND ADDRESS OF THE PARTY	AND THE PARTY OF T
of the restore	1 * RP BR RECOVER XXX ON SUCCESS
1 * NOTE: This function is responsible for setting the template_name	* Returns:
	*
object.	236 1 * context (I) - Pointer to the restore context 239
this called to retrieve the highest level restorable objects for this	* Paramatara:
1 " II Chis call recurns success,	scorage when a restore session is ending.
1 * for browsing and marking this top level object.	
	1 * This function is called to allow the plug-in to clean up its
lidation and initialization	-
<ul> <li>objects has been selected (for browsing and marking). The plu</li> </ul>	
1 " This function is carred to notify the ping-in that one of its cob	·
*	
***	
·	· 一个传统法传统的《传统政治院的原传》中的传统法法法院法院法院院院院院院院院院院院院院院院院院院院院院院院院院院院院院院
T SHOT'S SHOWING THE STATE OF T	279 1 * EF_K6_MGCUVER_XXX ON GITOI
et RSTRPC_tlo_list **topLevObjs,	1 * E_SUCCESS on success
	* Returns:
1 RSTPI_GetTopLevelObjects( restore_context *context,	1 *
tv	* CONTROLS (4) - DOUBTRY TO THE YEARTONE CONTROLS
	1
*	1 * set.
1 * EP_RB_RECOVER_XXX on error	and the human user fields 201
	The restore context will have already been
	' 'local' initialization.
1   I numberEntries ( - the real number of objects returned in the list	* This function is called once to allow
FILOU IO	rii Cei lo la
	Dogo E of 10

Fri Oct 10 15:18:01 2008		379 1	378 1	377 1	375 1	374 1	372 1	370 1	369 1	368 1		-		p= p	359 1	358 1	356 1	355	353 1	351 1	350 1			ю	344 1	143 L	1 100	340 1	336			333 1	332 1	330 1	328 1	327 1	325 1 326 1	324 1	
	I) - Indicator	transport (	I) - Flag	٦.	(I)	context (I) -	Parameters:	EDMRST_Start to begin	rescorable objects.	This function creates	Submit	***************************************	RSTPI_ClearRestoreContex	*****	context (I)	Parameters:	EP_RB_RECOVER_XXX	* Returns:	ologon olon a contra	* plug-in should perfo	top level object is	This function is cal	* Clear Restore Context :	*****************						RSTPI GetNextLevelObjects( restore_context		*******************	* EP_RB_RECOVER_xxx	* Returns: * E SUCCESS	* allowBadFiles (I)			* objects (	THE RESERVED THE PROPERTY OF T
	Indicator of transport the restoral is to be over (SCSI or network)	only if inPlace == False)	Flag if the restoral is to be in oxiginal locations  I) - directory to restore to (	and the state of t	(I) - host to restore to (only if inPlace == Palse)	Pointer to the restore context		begin execution of the restore.	e ID of the created submit object is passed	creates a submit object from the currently marked		/ «» «» « « « « « « « « » » « » « » « »	<pre>RSTPI_ClearRestoreContext( restore_context *context );</pre>	/*************************************	- Pointer to the restore context		on	on success		plug-in should perform whatever cleanup and memory deallocation is	level object is no longer selected (	This function is called to notify the plug-in that its currently salect.	čt :	✓申库格德葡萄用户按摩申库布库格德德德电容用等电容电路电路电路电路电路电路电路电路电路电路电路电路电路电路电路电路电路电路电	*numberEntries const boolean_ty allowEadFiles);	long long maximum tes,		struct RSTRPC_uro_list **objects,	CtPtr	s restore_context *context,		为中央外外外体的原本中央中央中央中央中央外的特殊外面中央中央外域的发射的原文中央的现在分词中的中央的现在分词的现在分词的现在分词的现在分词或可以用的现在分词的 party	9	on success	- flag whether or not to include bad files		<ol> <li>a place holder for the list position</li> <li>the maximum number of objects to return</li> </ol>	ointer to receive the start of the objects	
	432	431	430		428		426	425	to 423	27.0		421	429 420	66	910	415		411	410	27 is 408		ii, 	404	402	ies, 400	399		397		394		166 / ****	389	387	386		382 383	list 391 1	
1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	* The second service library function, RSTPL_GetFindResults used to	and to pass back progress information (	* RSTPI_FindRestorableObjects to allow testing for cancelation of the find		* RSTPI_GetFindResults, is used to test for completion of the find,	" KSTPI_FindKestorableObjects if a plugin has its or	lestorableObjects fu	* The find operation is performed by the asynchronous thread	object.	and the backup time associated with the		1 * is a linked list of found objects. Returned	1 * These two functions allow the user to find restorable objects.	* RSTPI_FindRestorableObjects and RSTPI_GetFindResults	1 * Find Routines:	1000		1 int submitObjectID 1 RSTPI_QuitTest quitTestCB );	1 eerrno_ty RSTPI_StartRestore( restore_context *context,	The second secon	<ol> <li>ID of the submit object which describe</li> <li>function to call to check for the</li> </ol>	<pre>1 * context (I) - Pointer to the restore context 1 * submitObjectID (</pre>	1 * Parameters:	The rescore	* restoral of the objects in a submit object. The quitTest caliback for function must be called periodically to check for cancellation of	the	financia boudes			int submitObjIDptr  RSTPI_SubmitProgressProc progressCB );	reTransport	const boolean_ty inPlace, const char *directory,	olicy	1 eerrno_ty RSTPI_Submit( restore_context *context,  const char *hostName.	2. 另外外外的外面的有效的对象的对象的对象的人,我们就是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	1) - pointer to caliback inaction to report progress	the restore	1 * submitObjIDptr( IO) - ID of the submit user object created to describe	

*conical_obj *topi
530 531 533 533 534 535 536
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of templates returned in the list
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ore context
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the templates with which a 523 1 backup 524 1
* Get Top Level Templates:
520 521
*cookie );
ndObjects,
RSTRPC_found_obj_list 516
ty cancel,
eerrno_ty RSTPI_GetFindResults( restore_context *context,
_
- a place holder for excess found objects 512 1
objects returned in the list
rist or round objects
the maximum number of objects to return 510 1
cancellation of the find (if TRUE)
500
508 1
505
RSTPI_FindProgressProc intr_callback 503
501
*context, 500 1
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495
Pointer to the restore context 494 1
492 1
operation. 490 1
1 age 8 01 10

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	642 1	unsigned long *otherMark	589 1
media list.	2		588 1
consider Bonot Cottlement Modify function and		long *	
and unmark are	640 1	unsigned long *BadFilesCount,	585 1
it must maintain the ohul	639 1	boolean_ty	
If a plugin does	038 1	*thisobject,	582 1
OPTIONAL function is provided to allow reta		context	- н
* GET Necessary media:	636 1		-
	634 1		
- CILLEGORALITY		progressCB ( I) - pointer to callback function to report progress and	577 1 *
_user_restorable_o	632 1	<ul><li>o) - return the total "other" files marked after this unmark</li></ul>	
restore_context *context,		otherMarked (	576 1 *
RSTRI IsobiectMarkable(	630 1		575 1
	۳	<ul> <li>o) - return the length of files marked after this unmark</li> </ul>	
	628 1	lenkarkedFiles/ - return the total tiles marked atter this unmark	*
the specified object is markable by the	626 1		573 1 +
* Return:	625 1	BadFilesCount (0) - returns the file count with BADDATA.	572 1 +
* thisObject - (I) ptr to the restorableObject in question	623 1	I) - Should unmark	
xt	622 1	descend (	570 1 *
* Daramerers:	620 1	allow meaning ONLY of files of graps	569 1 *
	619 1	e.g., a directory).	
it is not. This function applies only	618 1	file), or a container object (	558
* function Description:  * Parturns TRUE if the specified object is markable by the user,	616 1	he a leaf object (e c	567 1 *
	615 1	context (I) - Pointer to the restore context	
* Is Object Markable	614 1	UnmarkObject Parameters:	564 1 *
boolean_ty *marked);	611 1	(abvllist) element of the restore context up to date.	562 1 +
action water was the control of this object,	010	NOTE: This tunctions is responsible for Keeping the volumes needed	
RSTPI_IsObjectMarked( restore_context restorable object			p.s.
	608 1	progress data using the progress callback function argument.	559 1 *
	606 1	must periodically check for user-signalled cancelation,	558 1
************************************			
unma	605 1	in the Restore Engine that performs the unmarking,	557 1 *
		operation	1 000
* (e.g. a file), or a container object (	504	critical the sense dimension call is an asymptomore of critical	
ect (	603 1	possibly its descendent files for restoral based on the input	555 1 *
* context (I) - Pointer to the restore context	602 1	The unmarkubject oberacion taxes a restorablectand and unmarks	554 1
* Parameters:	600 1		
	599 1	UnmerkObject	552 1 *
i.e. objects that have the same parent restorableObject.	598 1	1. 化阿尔特氏性 化多子性 医克克特氏 化二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	
object tree		ckProgr	549 1
le objects	597 1	unsigned long "otherMarked,	548 1
ie intended	596 1		
* This function determines if a restorable object has been		long	545 1
ts onject marked	593 1	unsigned long *BadFilesCount,	
***	592 1		
A THE TOWN THE PARTY OF THE PAR	1 065	struct RSTRPC_user_restorable_object "thisubject, boolean tv	540 1
1	5		HI CCI 10 15:18:01 2008
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760 1 * of the current top level object.	eerrno_ty n	702 1
1 * This routine must set the restore environment to the the nex	***************************************	700 1
* *	* DE_NO_NOCONDIC_BOUNDE - NO WOLLD DECKUP CULTERILLY /	699 L
	2	697 1
*	* EP_RB_RECOVER_INVALOP - call issued out of sequence 755	696 1
G 1 /***********************************	* Return Codes: - operation completed successfully	694 1
roller Control	workstand (A) ette ette Ar ette MCCATA	693 1
1 RSTPI_SetPrevBackup( r	3	691 1
۳		690 1
8 1	* is set to and return it in the preallocated buffer. 74	688
-	context 747	
6 1 * of the new catalog	* Retrieve the time of the backup that the current restore 74	687 1
* EP_RB_RECOVER_PERWISSION_DENIED - when user cannot access		685 1
1 * EP_RB_NO_PREV_CAT	* RSTPI_GetCurrentBackupTime	684 1
Return Codes: - operation completed successfully	** 72	
* ****	/**************************************	682 1
9 1 * Context (I) - Pointer to the restore context 0 1 * flags (I) - Backup constraint flags: e.g., full-only/partial-ok	short *numEntries ); 739	680 1
a 1 * Parameters:	struct RSTRPC_time_list **timesList, 730	679 1
6 1 * to the current one.		677 1
	startTime,	jes
s t * Set the restore context to that of the previous backup with	RSTPI GetAllBackupTimes( restore context *context, 735	674 1
2 1 * Set Previous Backup	***************************************	672 1
*	* P_SOUTHERS - Obstantin conference sensonsestativ	670
[]	* Return Codes:	569 1
	CO COURSE OF CHANGE STORY	668 1
RSTRPC backup flags ty flags );	- (0) per to linked list of times	666 1
1 RSTPI_SetBackupForTime( restore_context	I) Backup	
s 1 eerrno_ty	(1) Illegand the rates clear clies when	665 1
-	me - (1) include no earlier than this date	663 1
2000年,在中国中国的发展的经济中国的专项中央外部的特殊中国中国中国中国中国中国中国的国际的国际的国际的国际的对抗对抗对抗对抗对抗对抗对抗性的原因中国国际国际国际国际国际国际国际国际国际国际国际国际	xt - (I) Pointer to the restore context	662 1
* EP_RB_RECOVER_XXX - k	* Parameters:	661 1
	approximate any trace community.	660 1
a : * Refrien Codes:	ie backups within the time range	658 1
* flags (I) -		657 1
	Get All backup ilmes	656 1
* Parameters:		654 1
*	713	0.55 A
i2 1 * that is before the specified time, if an exact mactch is not possible.	71.2 Tilder中央企业的企业企业企业企业企业企业企业企业企业企业企业企业企业企业企业企业企业企业	
		651 1
o 1 ' Function bescription:	eerrno_ty RSTPI_GetNecessaryNedia( restore_context "context, "?	649 1
ра 1 — Ж	***************************************	648 1
18 L * Set Backup For Time	* O) = COS real number or media objects recurred in the array	647
*	ries (	646 1
706 to /***********************************	O) - address to return a pointer to the list of objects in	645
time_t	(I) - Pointer to the restore context	644 1
rantBackur@imo( rectors context *context.	1 100 100 100	11000
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Fri Oct 1	816 1	811 1	808 1	805 1 807 1	802 1	798 1 799 1 800 1	نونز نو	793 1	791	789 1	785 1 786 1	783 1	760 1	1 66.6	775 1 776 1 777 1	770 I 771 1 772 1 773 1	769 1	765 1 766 1 767 1 768 1	762 1 763 1 764 1	Fri Oct 1
Fit Oct 10 15:18:01 2008	E_SUCCESS - operation completed successfully	* context (I) - Pointar to the restore context (Figs ( 1.4gs ( 1.4gs ) - Backup constraint flags: e.g., full-only/partial-ok	* plane. catalog	* Set Most Recent Backup  * Function Description:  * Exact the restore context to that of the most recent backup	\	RSTPT_SetFixstBackup( restore_context *context, RSTRPC_backup_flags_ty flags );	the new catalog	* EP_RB_RBCOVER_PERMISSION_DENIED - when user cannot access the	* E_SUCCESS - operation completed successfully	tlass (1) France to the recover tomes.  List I) - Backup constraint flags: e.g., full-only/partial-ok	Parameters:	* Function Description:  * Set the restore context to that of the first backup plane.	* Set First Backup		eerrn_ry RSTPI_SerNextBackup( restore_context	of the new octalog  BP_RB_RECOURT_NO_CATALOG - when mest_set_meplane failed  ARREST - ARREST	* EP_RB_RECOVER_PERMISSION_DENIED - when user cannot access the file	* Return Codes:  * E_SUCCESS - operation completed successfully  * EF_RE_RECOURN_NO_NEXT_CATRLOG - when at the most recent catalog	Parameters:     Contest (1) - Pointer to the restore context     flags (	FH Oct 10 15:18:01 2008 Page 15 of 18
Fri Oct	872 1	867 1 868 1 869 1 870 1	864 1 865 1	861 1 862 1 863 1	859 1 860 1	856 1 857 1	851 1 853 1	850 1		844 1 845 1	842 1	841 1	838 1 839 1	836 1	833 1 834 1	828 1 829 1 830 1 831 1		822 1 823 1 824 1 826 1	818 1 819 1 820 1	Fri Oct
Fri Oct 10 15:18:01 2008	************	estrno_ty RSTPI_IsThereNextBackup( restore_context	* * * * * * * * * * * * * * * * * * *	* Return Codes:  * E_SUCCESS  * EP_RB_RBCOVER_xxx	0 H	* Parameters:  * context (I) - Point  * flags (	* * Function Description: * Determine if a backup * currently selected. *	here Next Backu	/*************************************	eerrno_ty RSTPI_IsTherePrevBackup{    restore_context	***************************************	*	* Return Codes:  * E_SUCCESS  * EP_RB_RECOVER_XXX	(0) -	* Parameters:  * context (I) - Point  * flags (  * flags (  I) - Backup co	* Function Description:  * Determine if a backup exists prior to  * currently selected.  *	* Is There Prev Backup	estino_ty RSTPI_SetMostRecentBackup( restore_context RSTRPC_backup_flage_ty /************************************	等 中央 电电子 医电子 医电子 医电子 医电子 医电子 医电子 医电子 医电子 医电子	Fri Oct 10 15:18:01 2008
RSLplugin.h 16		restore_context RETREC_backup_flags_ty flags, boolean_ty *isThere);		<ul> <li>operation completed successfully</li> <li>when errors occur accessing catal</li> </ul>	<ul> <li>Backup constraint flags: e.g., full-only/partia</li> <li>TRUE/FALSE that requested backup does exist</li> </ul>	<ul><li>(I) - Pointer to the restore context</li></ul>	up exists after the backup that is			estore_context RSTRPC_backup_flags_ty *context boolean tv *isThere	***************************************		<ul> <li>operation completed successfully</li> <li>when errors occur accessing</li> </ul>		(I) - Pointer to the restore context ( Backup constraint flags: e.g., full-c	up exists prior to the backup that		restore_context *context, RSTRPC_backup_flags_ty flags );	the new catalog.	
Page 16 of 18		, , , , , , , , , , , , , , , , , , ,	/*	nd successfully accessing catalogs	full-only/partial-ok backup does exist		hat is	,	*****	xt, flags, re);	*/	catalogs	successfully	does exist	text full-only/partial-ok	p that is		*context, flags );	09.	Page 16 of 18

Fri Oct	and a state of the	924	921 922	920 1	914 1 915 1 916 1 917 1	912 1	909 1		902 1 904 1 905 1	901 1 909 1 999 1	897 1	896 1	890 1 891 1 892 1 893 1	888 1	885 1 887 1	882 9	878 1 879 1	874 1 875 1 876 1	Fri Oct
Fri Oct 10 15:18:01 2008		#endif /* #ifndef H_RSLPIAPI */	) Bendif	#ifdef _cplusplus	eerrno_ty NSTPI_IsThereNextBackupForTime( restore_context NSTPI_IsThereNextBackupForTime() NSTPI_backup_for NorTime() NorTime() NorTime() NorTime() NorTime()	***************************************	* Return Codes: * E_SUCCESS * EP_RB_RECOVER_XXX	* *	* Paras	* Funci	* Is There NextBackup For Time	/**************************************	eerrno_ty NSTFI_IgTherePrevBackupForTime( restore_context NSTFI_IgTherePrevBackupForTime( restore_context NSTFEC_backup booken_ty booken_ty	****************	* Return Codes: * E_SUCCESS * EP_RB_RECOVER_XXX		* Paran	* Punction Description: * Determine if a bac	Fri Oct 10 15:18:01 2008
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